

# Hopes dashed by 4% funding increase

by Judith Knelman  
Hopes raised in Ontario universities by the new government's pre-budget announcement of a \$50 million grant for faculty renewal, research, and library and instructional equipment were somewhat dashed Oct. 24 with the news that for 1986-87 and 1987-88 operating grants to the system will be increased by four percent.  
The University Excellence Fund and the promise of good news for univer-

sities by Gregory Sorbara, minister of colleges and universities, proved to be not a pre-budget appetizer but half the meal. The four-percent increase in the operating grant from \$1,244,000,000 for the current year to \$1,293,760,000 for next year is about the same as the one-time-only, targeted excellence fund. Universities do not regard the total amount as an eight per cent increase because it is not to be added to the base used for increases in future years. It is possible, however, that

they will receive some indication of future commitments in the next provincial budget, which is expected in March or April of 1986.  
Individual universities' shares of the global grants are not yet known. The Ontario Council on University Affairs is to advise the Ministry of Colleges & Universities on allocation of both the operating grant, which has been distributed under an interim formula for the past two years, and the renewal and research components of

the excellence fund. The \$25 million library enhancement and student equipment component will be distributed on the basis of the universities' 1985-86 weighted enrolment. Whatever formula is used to distribute next year's operating grants, it is unlikely that U of T will receive the system average of four percent when enrolment here has not been increasing at the same rate as enrolment in the system as a whole.  
The targeting of the one-time-only

Continued on Page 2

## UNIVERSITY OF TORONTO **Bulletin**

No. 7 39th year

Monday, November 4, 1985

**Inside**  
No legitimate public opinion poll would find university affairs a high public priority, former Ontario premier William Davis tells a U of T audience ..... 3  
The provincial government presses for affirmative action for woman at universities ..... 3

### Gov't's surprise OISE move 'a tremendous opportunity'

The Ontario government has decided that the University of Toronto will take over the Ontario Institute for Studies in Education "as a step towards eliminating duplication in the public sector".  
The move was announced by Robert Nixon, the provincial treasurer, in his budget speech Oct. 24 under the heading "Better Value for the Taxpayer's Dollar".  
The administrative heads of both institutions appeared mystified but by no means dismayed by the edict. They had already committed themselves to a consideration of ways and means of joining forces once the current affiliation agreement expires at the end of the current academic year. However, Dan Lang, assistant vice-president (planning), said the government's move might actually retard the merger.  
"My colleagues and I had entered into discussion with you and your colleagues in the expectation that our future relationship would be determined by agreement between our respective institutions," said President George Connell in a letter of Oct. 24 to Bernard Shapiro, director of OISE. "I believe that the action of the government, while unexpected, offers to both our institutions a tremendous opportunity for future development."  
"A permanent relationship will provide the stability to get on with mutual development," said Michael Fullan, assistant academic director at OISE. "What's needed most is the integration of FEUT and the graduate program."  
"I'm absolutely amazed that the provincial government would so blandly announce such a proposal," said Michael Finlayson, president of the University of Toronto Faculty Association. "It will create 2,500 salary anomalies." The floor for an assistant professor is about \$36,000 at OISE as compared with \$27,000 at U of T. However, 1982-83 statistics gathered for the Joint Council on Education's subcommittee on integration showed that average salaries at

FEUT were higher — for a full professor, \$57,728 at FEUT and \$52,838 at OISE; for an associate professor, \$51,933 at FEUT and \$45,256 at OISE.  
It is not clear what the duplication seen by the government is. OISE provides post-graduate teacher education, whereas FEUT prepares teachers to enter the profession.  
Two in every five graduate degrees awarded by U of T are to OISE students. Affiliation with the University permits OISE to award U of T degrees, but its funding from the provincial government is received separately.  
David Askew, president of the University of Toronto Staff Association, said he hopes the staff is not expected to pay the price for the efficiencies that the government intends will result. If there is to be shrinkage, he said, it should be allowed to come about by attrition. He would like to be consulted as to how the OISE and FEUT staffs are to be integrated.  
OISE has four collective bargaining units recognized by the Ontario Labour Relations Board — for faculty, research officers, administrative staff and clerical staff. There are nine departments: adult education, applied psychology in education, curriculum theory, educational administration, higher education, history and philosophy of education, measurement, evaluation and computer applications, sociology in education and special education.  
OISE has been criticized in the past for low admission standards and uneven quality of its faculty, but a review done last year by the Ontario Council on Graduate Studies confirmed the quality of its research and academic programs. In 1979 the School of Graduate Studies attempted to end the affiliation arrangement, but the decision was overruled. Nonetheless, said Fullan, in signing the 1980 agreement OISE undertook to address the concerns identified by SGS.



Masks for commedia dell'arte

A special preview of Carlo Goldoni's "The Servant of Two Masters", the first student production of the Graduate Centre for the Study of Drama, will be held Nov. 18 to honour the many patrons from the Italian-Canadian community who donated money for the masks made for the play. This masterpiece of the commedia dell'arte runs from Nov. 19 to 24 in the Robert Gill Theatre in the Koffler Centre. Seen here from the play are (top to bottom) Dottore (Yuval Daniel), Pantalone (Richard Markle) and Truffaldino (Michael Whitehead).



## Budget

Continued from Page 1

money raises the question of whether the Liberal government has decided that it does not want most of the funds it provides to universities consumed in straight salary increases. The budget says: "Inflation has stabilized and this should be reflected in public sector salaries and other costs of operation. We have to manage our limited resources carefully and target resources for emerging priorities. We must maintain and upgrade our educational facilities; we must place greater emphasis on opportunities for excellence among our students . . ."

President George Connell has pointed out that if inflation runs at 4.4 percent next year as projected in the budget and basic operating grants are increased by only four percent, universities will not be able to maintain their levels of service, let alone enhance quality.

"I am deeply disappointed in the provisions for ongoing support to universities," he said in a statement issued after the budget. "There is an apparent discrepancy between the commitment to improving post-secondary education in Ontario announced by the Minister of Colleges & Universities in his statement to the House last week and the further erosion of base support announced in the budget."

He did, however, welcome the special grants while expressing a hope for a long-term commitment by the government to maintaining them.

"The four percent is very disappointing," said Michael Finlayson, president of the University of Toronto Faculty Association. "It doesn't sound anything like what Sorbara has been

saying about correcting a decade of underfunding. It seems to be a continuation of the policies of the previous government."

Will Sayers, director of communications for the Council of Ontario Universities (COU), said the way in which the money is to be handed over to the universities does not give them the stability they need for planning purposes. "I don't consider the four percent a significant step towards redressing the damage that's been done by a decade of underfunding," he said. "It doesn't even match the government's own projections for inflation for the coming year."

COU had told the government an increase of 8.6 percent would be needed to address the difficulties identified in the report of the Bovey Commission, while 5.6 percent would allow the universities to maintain the present level of service. The Ontario Council on University Affairs recommended an increase of 8.96 percent.

Howard Epstein, executive director of the Ontario Confederation of University Faculty Associations, said the funding announcement was the best news the university system has had in a decade. "We think there's real progress here. We're regarding it as eight percent, though there is the question of whether the excellence fund will be rolled into the base for the next year or perhaps introduced in some other way so that it is not a one-shot fund."

Also in the budget was a ceiling of four percent for tuition fee increases next year to improve students' access to universities and an increase of eight percent in the Ontario Student Assistance Program. Universities will get \$10.5 million in regular capital grants and an additional \$9.5 million in special capital assistance.

## Gov't willing to pay for accessibility and quality

For several years, the university community has been asking the Ontario government for a policy statement on accessibility and quality. Not content to "muddle through", as the Fisher Report said in 1981 that Ontario universities would be doing if underfunding were continued and the system not restructured, they pressed for a response, which was eventually (if indirectly) delivered in the form of the Bovey Commission, established in 1983 to advise on the restructuring of the system.

The Bovey Commission reported last January that universities were badly underfunded and in need of a rescue operation that would cost the province about \$850 million over eight years. It suggested the limiting of accessibility in the first two years as a means of maintaining quality. Apart from a protest from the premier and the minister of colleges and universities that the Conservative government was not ready to sacrifice accessibility for quality, there has never been a response to that report.

Last month the Liberal government, which took over in June, began to deliver a piecemeal reply in the form of targeted funds for faculty, buildings, research and libraries — all identified by the Bovey Commission as areas in need of special support. While accessibility is to be maintained and perhaps increased, quality is to be enhanced, more faculty (especially women) are to be hired, facilities are to be improved, and money will be forthcoming toward these goals. There is to

be greater commitment on the part of the government to post-secondary education.

"We're starting out on a road," said Gregory Sorbara, minister of colleges and universities, at a press conference held Oct. 21 after a breakfast to mark National Universities Week, "using the Bovey Report as a reference document. But we can't do everything in the first year. You don't redress 10 years of underfunding by one initiative or a number of initiatives."

He said accessibility is to be maintained while the quality is being enhanced. "We don't have a plan to limit accessibility in order to enhance quality. I would hate to have to make that tradeoff. We want to maintain a place for every qualified student in Ontario and ensure the highest possible quality of education for the student and research capacity too."

The faculty renewal fund, he said, is structured as a one-year grant, "but it is safe to assume we will have to work it into future commitments to the people brought on. We're not looking to establish \$10 million worth of one-year contracts."

Sorbara said his government will approach the federal government to modify restrictions on visa students so that those who want to can stay here after they have graduated from university. It's almost impossible, he said, for foreign student graduates to take up permanent residence in Ontario unless they are entrepreneurs or have substantial experience in the particular line of work they are trained in.

## Next Bulletin

The next issue of the *Bulletin* will be published on Monday, November 25.

The deadline for display ads and events is two weeks prior to publication. Editorial material and classifieds should be in the *Bulletin* offices at 45 Wilcocks St., 10 days before the publication date.

## Correction

Dan Abrahams of the Association of Part-time Undergraduate Students was omitted from the list of members of the provostial committee reviewing the Transitional Year Program published in the Oct. 21 *Bulletin*.

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# Women's employment rights in universities take on added importance with gov't offer

U of T is considering strengthening its equal employment policy to become eligible for up to \$23,000 in government assistance in an affirmative action program.

In June, an employment equity incentive fund for Ontario universities was announced by the outgoing Conservative government. The program has been endorsed by the Liberal Minister of Colleges & Universities, Gregory Sorbara, who in a recent speech at Ryerson drew attention to the disparity between the numbers of male and female academics and senior administrators at Ontario universities and invited the governing bodies and executive heads to work with the government towards equitable employment and promotional opportunities for women.

To be eligible for funding for 1986, a university must adopt a formal policy of affirmative action for women employees, appoint a senior staff member to develop and coordinate an affirmative action plan, and collect and analyze information on occupational and salary distribution of males and females, job competitions, projected vacancies and staff training and development. The deadline is Nov. 30. All universities, whether involved in the program or not, are to report annually to the Ministry of Colleges & Universities on their progress toward employment equity for women.

U of T's equal opportunity policy (adopted in 1976) would have to be modified to meet the specific requirements of the government, said personnel director Eleanor Dewolf, "but it would not be a radical departure from the spirit and intent. The difference lies in what one does about making that policy really live. I don't think the policy has been given its fullest expression. It provided for a lot more than what has been happening."

Policy number 2.01.03 reads in part: "The University affirms its adherence to a policy of equal opportunity for reasons of common humanity, and in the knowledge that the just and equal treatment of all persons with regard to employment is both good managerial practice and public policy as reflected in Ontario's human rights legislation. The University, therefore, wishes to make clear that it will not under any condition permit practices and procedures involved in its function and operation as an educational institution which discriminate against any person because of race, colour, religion, sex, or national origin. The enunciation of this policy represents the University's commitment to both the elimination of any existing inequities due to discrimination and the prohibition of their future occurrence."

A sample policy that would be acceptable to the government reads: "In demonstrating its commitment to achieving equal employment opportunity the University hereby undertakes a program of affirmative action for its women employees in order to raise and diversify their occupational distribution within the institution and to eliminate barriers to their full and equal participation in employment."

DeWolf and Lois Reimer, the University's Status of Women officer, are preparing a proposal and a modification of the existing policy. If it is approved by the administration, the policy will then be sent to the Business Affairs Committee. The application could go forward by the deadline if the government were assured that an appropriate policy was being

prepared, said DeWolf.

The grant would be for 75 percent of the cost of employing a coordinator and implementing an employment equity program to a maximum of \$20,000 and for up to \$3,000 for a special project. "We would like program support that would enable us to pull together studies done over the past 15 years and say what we can do now," said DeWolf. "Analysis would have to be done and data-collecting mechanisms set up. It would mean keeping track."

Susan Mann Trofimenkoff, vice-rector of the University of Ottawa and chair of the Committee on the Status of Women, recently established by the Council of Ontario Universities, said she has been assured that if an institution already has a coordinator the money can be used for secretarial support, training sessions or even office supplies.

Trofimenkoff said some universities are hesitant to adopt a policy of affirmative action for women for a relatively small amount of money. When the university presidents first heard of the offer, they suggested that it might be preferable to have the global sum given to COU for promoting affirmative action generally in the universities, she said, but the Ministry of Colleges & Universities wanted the money to go directly to each university with an acceptable policy.

"It's a little bit of leverage the province is trying on the universities — which is understandable," she said. "Quite clearly, the new Liberal government is giving high priority to the whole question of employment

equity for women."

Her committee will collect information on the current status of women, advise COU on policies to ensure equity in recruitment and advancement of qualified women and make universities more accessible and

accommodating to female students.

Reimer, a member of the COU committee, is asking campus groups or individuals concerned with improving the position of women to communicate their ideas or information to her so that she can present it to the group.



First micro-wave propelled aircraft

James DeLaunier of aerospace studies and George Jull of the Communications Research Centre (CRC) have become the first scientists to demonstrate that microwaves can be used to propel aircraft. DeLaunier designed this balsa wood and mylar biplane model, with a wing span of five metres, and flew it successfully this spring to an altitude of 100 metres. The purpose of the research is to perfect a microwave-powered satellite that will allow more regional and mobile telecommunications than conventional satellites. The concept was developed by the Jet Propulsion Lab and Raytheon Corp. in the US and refined by the CRC in Ottawa. It involves beaming a microwave signal to antennae which convert the energy into direct current energy. Following the successful flight of DeLaunier's bi-plane, work has begun to build an ultra-light vehicle the size of a Boeing 727.

## No 'great public clamour' over plight of universities: Davis

Universities must take their message to the community, because only public pressure will enable politicians to channel more money into higher education, says former premier William Davis.

In an Oct. 22 speech, given at U of T as part of National Universities Week, Davis warned that with competing demands on the limited public treasury, the province "is not in a strong position to direct large quantities of additional funds to even the most legitimate of needs."

He lamented the erosion of "that great wave of support" that two decades ago propelled the revolutionary expansion of higher education in the province and held the media partly responsible for the situation.

"Save for the occasional outburst from a university spokesman about the inadequacy of government funding or, perhaps, a strike, which has become a new phenomenon on university campuses, there is relatively little media attention being focused on higher education or the government's involvement in same," he said.

Davis argued against suggestions that the contributions of higher education to society should be obvious. "Nothing should be taken for granted in the realm of public opinion and understanding," he said.

Universities and government have failed to explain the importance of higher education to the general public, said Davis. "While I have tried to make that point to members of the university community for years, it has not taken hold, and I have certainly

been no more successful myself in carrying it forward to the wider community."

As a result, he said, "there is no great public clamour, as far as I can see, as to the plight of our universities."

Nor, he added, would any "legitimate" public opinion poll likely record university affairs as a high public priority or find more than "minimal" dissatisfaction with government policies toward higher education.

"Yet if members of the university are to continue to push ahead on the frontiers of knowledge and, through their discoveries, benefit society in general, we need the general understanding and support, as well as the financial resources that come from the public."

Davis called for "far closer linkages" between the university and the general community. "Not simply an exercise in public relations," he said, but concrete measures that would enhance public pride in the institutions were needed.

He suggested emulating the American emphasis on sports, "with the subsequent media attention, school spirit and alumni support they attract."

And when it comes to gaining financial support from both alumni and the business community, "we are not in the same league" as American universities, he said.

Davis also pointed to the role of state universities in the US as "prime problem solvers for the state government". This, he said, has improved the

working relationship between government and the universities, "and thus between citizens and the universities."

During a question-and-answer session following his speech, Davis told an angry questioner who was critical of American higher education and praised European universities that "there is not a country in Europe with a greater level of success in education than Ontario."

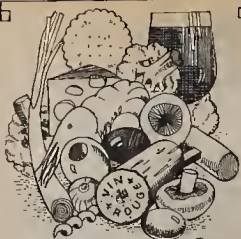
He shied away from discussing the educational policies his government implemented in the late 70s and early 80s, when university underfunding led to overcrowding and other continuing difficulties.

But he conceded that "I am not sure, even now, that we fully appreciated the magnitude of the task that we were undertaking when we pledged, in this province, that every qualified student who sought the opportunity to enrol in higher education would be given that opportunity."

Since 1960, he said, university enrolments have leapt from 32,000 to over 175,000, and a province-wide system of colleges of applied arts and technology was built "virtually from scratch."

He stressed that universities should not forget who paid for the accomplishments of the past, and, noting that financial conditions had changed dramatically since the boom years of the 60s and early 70s, said that universities would have to find new ways and new benefactors in order to meet an old mandate.





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## Service employees vote on contract

Members of Local 204 of the Service Employees International Union (SEIU) voted yesterday on a two-year contract offer from the University. The local represents 650 caretakers, cleaners, parking attendants and animal care personnel.

The offer, which was made three weeks ago, includes a new provision for adoption leave, a .24 percent increase in dental benefits, and an across-the-board raise of 90 cents per hour over two years.

## Play's opening a U of T benefit

All proceeds from the Dec. 2 premiere of "My Three Angels", a new musical by Canadian-born producer David Warrack, will be donated to the University of Toronto. The idea for the benefit grew out of meetings of the Koffler centre and theatre opening volunteer committee, of which Warrack was a member.

The play by Belia Spewack, upon which the musical is based, is set in French Guiana during Christmas 1910. It was first a Broadway hit and then a movie starring Humphrey Bogart. Following the premiere at the St. Lawrence Centre there will be an after-theatre party. Tickets for the theatre and party are \$35. Reservations can be made by calling the St. Lawrence Centre box office, 866-7723. More information on the evening is available from U of T at 978-2021.

If the members reject the contract, as union negotiators recommended, there will be another vote during working hours today, supervised by the Ontario Ministry of Labour. However, a strike vote was also slated by the union for yesterday afternoon. This means today's government-supervised vote on the contract could proceed while the workers are officially off the job.

Talks between the University and the union broke off Oct. 18. At issue, according to a union spokesman, is a clause which initiates sick leave payment after three days off the job. Most but not all other University employees are paid from their first day of absence.

Another dispute concerns temporary workers hired to fill in for sick permanent employees. Under the terms of the University offer, a temporary employee who works for 120 days gains access to competitions for vacan-

cies — in particular, the vacancy created should the ill permanent employee choose not to return. The union wants other permanent employees to be considered first for these positions.

The request for a government-supervised vote — a relatively recent addition to the provincial Labour Relations Act — comes at the request of the University. John Parker, labour relations manager for U of T, said he approached the government because the union was "not dealing properly" with the University offer, particularly in waiting three weeks before bringing that offer to a vote. A union press release calling the University request for government supervision "an intolerable interference" said booking difficulties caused the cancellation of an earlier membership meeting.

## Takenaka receives Chancellor's Award

Kay Takenaka, the University's ceremonials assistant, responsible for the Convocation of graduates, the installation of presidents, and various other University events in between, is the recipient of the 1985 Chancellor's Award. The award, established in 1974 by the U of T Alumni Association, recognizes outstanding contribution to

the University community other than for teaching or academic research. The first recipient was Bill Foulds, former assistant dean and secretary of the Faculty of Arts & Science.

Takenaka, on the staff of U of T since 1960, will receive the award at Convocation Nov. 20. A dinner will be held in her honour Nov. 26.

## In Memoriam

William James McBain, architectural design, Oct. 23. Born in 1913, McBain graduated from U of T with a BArch in 1944. He taught architectural design here from 1947 until his retirement in 1978.

In 1986 he headed the Schools Research Project, a collaborative program sponsored by U of T and the

Ontario Department of Education. His job was to establish design criteria for secondary schools in the light of changing educational philosophy and new technical developments.

In 1971 he served as an adviser to the Thai Ministry of Education, which was establishing standards for

the building of vocational high schools.

He maintained a private architectural practice from 1945 to 1966, and in partnership with Hart Massey was the architect for the Law Library and Moot Court at U of T. From 1966 to 1976 he was a partner in the firm of Nicol, Ream, McBain Architects.

## U of Ottawa honours David Hayne

Professor Emeritus David Hayne, a member of the French department from 1945 to 1985, became an honorary Doctor of the University of Ottawa at Fall Convocation Oct. 20. Hayne, an authority on French-Canadian literature, has been an ongoing user of the U of O Centre de recherche en civilisation canadienne-française. He is the author of numerous articles, has written two books and edited 13 others, and is equally prolific as reviewer and translator. Holder of a Canada Centenary Medal, Hayne was elected a fellow of the Royal Society of Canada in 1970.

## Recommended dining

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a big iron pot which is kept hot at your table. The ingredients are boiled shrimps, lobster tail, crab legs, scallops, white fish and fish cake, green vegetables, and bonito stock. Soup, appetizer and dessert are included. Vegetarians will like the shoyu-jin-ryori complete dinner—a fascinating mélange of crisp oriental vegetables. There is accommodation for parties of four or more. Licensed. Anik's, Chiga, 459 Church Street, 924-1303. Noon-2:30 5 p.m. to 11 p.m. Mon-Fri, Sat. 5 p.m. to 11 p.m. Closed Sunday. \*\*\*\*

## UNIVERSITY OF TORONTO Bulletin

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# Despite the odds, Halley watching catches on

## Suddenly, everyone is a 'comet type'

by Arthur Kaptainis

Every other call received by the David Dunlap Observatory these days concerns Halley's Comet. Some callers want a peek through the 74-inch reflector; they are informed the DDO makes optical (as opposed to spectroscopic) observations very infrequently, and politely told that binoculars are really their best bet. Other callers ask about the comet's location; they are referred to the McLaughlin Planetarium and given the names of amateur astronomical journals that publish charts. Yet others have serious scientific questions; these are answered by astronomy graduate students, who, very much in the spirit of the discipline's traditional emphasis on public service, have organized themselves into an information network.

There is a certain irony in the comet's intense appeal to the public, rivalled among heavenly phenomena perhaps only by a solar eclipse. There are no "comet types" at U of T, explains Dunlap astronomer Robert Garrison, nor at many other astronomy departments. This is because the study of the solar system has begun to slip away from the astronomer and enter the orbits of the geologist, chemist, and meteorologist. The body of general mathematical data concerning our planetary neighbours is nearing practical completion; now the challenge is to account for their surfaces and cores, their constituent elements, and their atmospheres. In the astronomy undergraduate program, a single third-year course on the solar system remains. Garrison is sure it could be taught by a geophysicist.

So why not do the sensible thing and ignore Halley's Comet? The answer corresponds somewhat to the mountaineer's "because it's there". Says Garrison, who will be installed next week as president of the International Astronomy Union's Commission on stellar classification: "It's just an opportunity we can't pass up. We're doing what we can with the instruments we have. Inevitably the data will be useful."

The instruments at the disposal of Carrison and Tom Bolton (another stellar spectroscopist adding Halley to his dance card) are opposite in almost every respect, including their advantages and disadvantages. At the David Dunlap Observatory at Richmond Hill, a serene, classically landscaped oasis of Banting-era science sprouting out of a suburban wasteland, there is the great 74-inch reflector, still, in its 59th year, the largest telescope in Canada. Its location, though better than the originally proposed intersection of Bathurst and St. Clair, is not ideal. Night sky brightness has increased by an average of 25 percent per year since the early 1960s. This means the DDO concentrates on spectra rather than photographs, because much surplus light can be deleted from spectrographic images electronically. It also means that relatively bright objects — often sidestepped by other astronomers in favour of more glamorous fainter stars and galaxies — have become the specialty of the DDO.

But U of T has a southern outpost, a 24-inch reflector situated on the edge of Chile's Atacama Desert, one of the crispest, least turbulent and most profoundly dark corners of the earth, 120 miles from the nearest town and 7,500 ft. above sea level. When closest to the earth in April, Comet Halley will appear high in Chile's eastern sky, while Canadians will have to settle for a hazy smudge above the southern horizon. Carrison, director of the Chile station, has been taking spectroscopic images about once a week since early September — or rather authorizing them, since the actual manipulation of the telescope and spectroscope has

been left to a graduate student working on his thesis, who doesn't mind checking up on Comet Halley in his spare time. The Chile observatory's resident custodian will also be rolling up his sleeves from time to time.

The agendas at both sites are confined to spectroscopy, but here again there are differences. Ontario's November sky is unpredictable, so spectra from the DDO will be taken whenever the opportunity presents itself. This precludes regular measurement of changes to the comet's spectrum over time. In Chile, particularly during our winter months, the skies are always clear. Moreover, the comet will remain detectable longer. But the Chile telescope is small, and, like most small telescopes, is outfitted with a low-dispersion spectroscope. The spectral band that results when a magnified image is fed through this instrument is not as broad as a high-dispersion spectrum from the DDO; thus the lines signifying wavelengths (which in turn correspond to the presence of certain elements and isotopes) are relatively indistinct. Nor does the Chile station have a charge-coupled-device (CCD), the ultra-sensitive digital light detector, about the size of a postage stamp, that is fast replacing photographic plates as the industry standard in small-field observations.

"There are plenty of people with bigger telescopes looking at it much greater detail," concedes Carrison. This includes Bolton, who will be doing most of the high-dispersion work from the DDO — weather permitting. Nevertheless, it pays not to neglect an opportunity. Carrison remembers fondly his 1972 encounter with a supernova in a galaxy known as NGC5253. Its appearance was announced, through an astronomers' wire service, by George Herbig from the

Lick Observatory of San Jose, Calif. This was a big-name astronomer using a big-name telescope. Most astronomers sighed and continued to do whatever they were doing. There was no hope of improving on the observations of such an excellent scientist. Carrison began taking spectra from the then one-year-old Chile observatory. As it turned out, Herbig made his initial measurements of the supernova on the final night of a block of time he had booked at Lick. He was forced to abandon it. "We got a nice little paper out of that one," smiles Carrison.

There is sometimes a hidden advantage in doing without. The Chile telescope generates small spectra; small spectra are like small photographs — the details are fuzzy. But fuzziness has a way of congealing into patterns, which would disappear into a cluster of razor-sharp lines on larger, "better" spectra. The situation gives almost literal life to the old image of seeing the forest rather than the trees. Trees tend to be more interesting to astronomers: the relative abundance of two isotopes of the same element — represented by two very close and often indistinguishable lines — is a significant measurement when one object is under scrutiny. For the classification of stars, however, broad patterns, which signify such general characteristics as temperature, surface pressure and luminosity, are also vital. Too much detail is counterproductive: stars become classes in and of themselves. And there are billions of stars.

Classification, however, is not at issue where comets are concerned. They pass too infrequently to be classified. Each is a class in its own right. Furthermore, they are interesting to astronomers primarily because they are fossils from the original solar system, unchanged by

geological processes. Detailed measurements such as the abundance ratio of carbon-12 and carbon-13 may provide the only means of answering questions about the genesis of the planets, including earth. So again, why bother with low-dispersion spectroscopic analysis? Again, because few others will. The Soviet, Japanese and European probes will concentrate on ultraviolet radiation, since visible frequencies are readily available on earth. The ambitious surface projects will be searching for refined radio and infrared frequency data. Whether the low-dispersion results are interesting is something that can be known for certain only after they are taken. "You can never tell," says Carrison. "You just use your best equipment whenever you can."

There is no question that a bigger telescope in the south and a darker sky in the north would open up more research possibilities to U of T astronomers, whatever the character-building therapy of working without these advantages. The DDO will find it harder to stay in the international race as funding shrinks, Carrison predicts. NSERC's collapsing equipment fund is particularly damaging, since the price of certain devices — such as the \$100,000 CCD — is beyond the amount the agency feels it can allot to one astronomy department. Thus, after decades of servicing the community with tours and public education programs, the DDO is hoping to get something back, though private fund-raising campaigns for new equipment in Richmond Hill and a larger telescope in Chile. Then U of T's renown in bright-object and low-dispersion spectroscopy will be a matter of choice rather than necessity.



U of T's observatory in Chile has been taking spectroscopic images of the famous comet since September. When closest to earth in April, Halley's comet will appear high in Chile's eastern sky.



# RESEARCH NEWS

For further information and application forms for any of the following agencies, please contact ORA at 978-2163.

## Grant Application Signatures

Research grant applicants are reminded that if an award is to be administered by U of T, the University's signature regulations shall apply. These require that the application be signed on behalf of the University prior to submission to the sponsoring agency. The University signature is obtained through the Office of Research Administration.

## ORA Information Booklet

Two errors have been identified in the *Information: Research Policies & Procedures* (August 1985) booklet. Please make the following changes:

Page 29 (Contracts) Item B3 should read "Province of Ontario: 30% of total direct costs" NOT "30% of total payroll costs".

Page 73 (Agency Deadlines) Social Sciences & Humanities Research Council. The appropriate deadline for all strategic grants programs is June 1, with the exception of Canadian studies research tools for which the deadline is February 1.

## Canadian Electrical Association

CEA invites the submission of proposals for "Steam Utilization in the Chemical Process & Petrochemical & Petroleum Industries."

The closing date and time at CEA is 4 p.m., Thursday, December 6.

**Canadian Liver Foundation**  
Due to funding constraints the following programs will not be offered for the 1986 year: grants-in-aid, scholarships, fellowships and summer student scholarships.

## Energy, Mines & Resources

Information guides and forms for research agree-

ments are now available at ORA. The deadline is November 15 in Ottawa.

**Medical Research Council**  
MRC has made a number of changes to its programs for 1986-87. The following briefly describes upcoming programs. For a more detailed description, please consult the MRC Grants & Awards Guide 1985.

## Dental Fellowships

The dental fellowship program now replaces the present dental training program. A limited number of these fellowships will be available each year to candidates nominated by the Faculty of Dentistry. The deadline for this program is December 1.

## Studentship Renewal Applications

The deadline date for renewal applications only has been changed from December 1 to April 1.

## Natural Sciences & Engineering Research Council

Principal investigators are reminded that in addition to their signature, the department chairman's signature must also appear on the request for next instalment form before forwarding to ORA for signature on behalf of the President. ORA will forward all forms directly to NSERC.

## Ontario Ministry of Health

The ministry has not yet confirmed the deadline date for the 1986-87 career scientist program. In previous years, the ministry's deadline date has been Nov. 15 for this program. We suggest that investigators prepare to complete their applications by November 15. ORA will continue to seek a specific date from the Ministry.

The deadline date for the 1986-87 fellowship and stu-

dent awards program competition remains as November 15 for the fellowships program and January 15 for the student awards program.

**Ontario Ministry of Natural Resources**  
Guidelines and forms for both OMNR programs, geoscience research and renewable resources research, are now available at ORA.

**Geoscience research program**  
The deadline is November 15. Renewable resources research program deadline is December 15.

## Upcoming Deadline Dates

**Amyotrophic Lateral Sclerosis Society (US)** — abstract only: December 1.

**J.P. Bickell Foundation** — research grants: first week of December at the foundation. Internal ORA deadline for applicants from all faculties except medicine, November 15; applicants from the Faculty of Medicine should contact Rosalind Bugala in the research office of the faculty for their internal deadline.

**Canadian Heart Foundation** — junior personnel awards, fellowships: December 1.

**Canadian Liver Foundation** — grants-in-aid, scholarships, fellowships, summer student scholarships will not be offered in 1986. (Supersedes information in Bulletin, Oct. 21.)

**Canadian Lung Association (Physiotherapy Section)** — fellowships, research grants: December 1.

**CNIB (E.A. Baker Foundation)** — research and personnel: December 15.

**Lady Davis Fellowship Trust** — visiting professorships: December 1.

**Energy, Mines & Resources** — research agreements: November 15.

**Gerontology Research Council of Ontario** —

## research fellowships:

**December 1.**  
**Health & Welfare Canada (NHRDP)** — research projects, studies, demonstration, preliminary development: December 1.

**Medical Research Council** — dental and centennial fellowships, fellowships (new and renewal), studentships (new), biotechnology re-training and training centre awards: December 1.

**Muscular Dystrophy Association (US)** — fellowships and research grants (request for application): November 30.

**National Cancer Institute of Canada** — research and equipment grants: November 15.

**Ontario Mental Health Foundation** — individual awards, publication program, conference program: November 29.

**Ontario Ministry of Health** — fellowships and career scientists (see announcement): November 15.

**Ontario Ministry of Natural Resources** — geoscience research: November 15; renewable resources research: December 15.

**Ontario Thoracic Society** — research projects: December 15.

**Physicians' Services Inc.** Foundation — research grants: December 1.

**SSHRC** — Fellowships Division — doctoral completion fellowships in management studies: November 15 (renewals: January 15).

**U of T — Humanities & Social Sciences Committee, Research Board** — grants-in-aid: December 1; conference travel grants: December 15.

**Whitehall Foundation Inc.** — research grants-in-aid (life sciences): December 1.

## PhD Orals

Please contact the PhD oral examination office at 978-5258 for information regarding time and location for these listings.

**Friday, November 8**  
**Robert Glen Adlam**, Department of Anthropology, "The Structural Basis of Tahitian Indian Society." Prof. D.H. Turner.

**Ralph Joseph Clark**, Department of Education, "A History of the Department of Extension at the University of Alberta, 1912-1956." Prof. J. Draper.

**Monday, November 11**  
**Kingsley M. Banya**, Department of Education, "An Evaluation of the Implementation Process and Impact of a Teacher Education Program." Prof. G. McDermid.

**Wednesday, November 13**  
**Alexander Euan MacKenzie**, Department of Medical Biophysics, "A Study of the Binding of Oligosaccharides and Glycoproteins to Concanavalin A." Prof. J. Carver.

**Thursday, November 14**  
**Barbara W. Murck**, Department of Geology, "Factors Influencing the Formation of Chromite Seams: Part I. The Behaviour of Chromium in Basic and Ultrabasic Melts, Part II. The Petrology and Geochemistry of the G & H Chromite Seams in the Mountain View Area of the Stillwater Complex, Montana." Prof. A.J. Naldrett.

**Friday, November 15**  
**John Donald Rose**, Department of History, "British Foreign Policy in Relation to Transcaucasia, 1918-1921." Prof. H.I. Nelson.

**T.A. Utigard**, Department of Metallurgy & Materials

Science, "Surface and Interfacial Energies: The Hall-Héroult Process." Prof. J.M. Toguri.

**Monday, November 18**  
**Christopher James Murphy**, Department of Sociology, "Police, Power, Politics: An Analysis of Small Town Policing in Nova Scotia." Prof. R. Ericson.

**Annette Marie Cecile O'Connor**, Institute of Medical Science, "Methodological Issues in Measuring Values for Cancer Drug Treatment Outcomes." Prof. J.E. Till.

**Wednesday, November 20**  
**Patrick Rene Francis Louchez**, Department of Mechanical Engineering, "An Investigation of Plane Turbulent Wakes Generated by Solid and Porous Bodies." Prof. J.E. Keffer.

**Linda Nan Peritz**, Department of Medical Biophysics, "The Role of nusA Protein in Escherichia Coli Transcription and Termination." Prof. J. Greenblatt.

**Thursday, November 21**  
**Alok Dobryal**, Department of Statistics, "Linear Calibration and the Linear Functional Model — A Fiducial Method for Interval Estimation." Prof. D.A.S. Fraser.

**Friday, November 22**  
**Z. Izidorczyk**, Centre for Medieval Studies, "The Legend of the Harrowing of Hell in Middle English Literature." Prof. R. Harvey.

**Michael Stephen Ernest Tremblay**, Department of Education, "Human Goals and Higher Education — Non-Traditional Learners." Prof. I. Winchester.

**Monday, November 25**  
**Trevor William Chamberlain**, Faculty of Management Studies, "The Role of Liquidity in Determining Business Investment." Prof. M.J. Gordon.

**William John Gerald Crins**, Department of Botany, "Taxonomy of *Carex* Section *Ceratocystis* in North America and Northern Eurasia." Prof. P.W. Ball.


**James Handy**, Department of History, "Revolution and Reaction: National Policy and Rural Politics in Guatemala, 1944-1954." Prof. D. Raby.

**Tuesday, November 26**  
**David A. Naranjit**, Department of Chemistry, "Multielement Non-Dispersive Zeeman Scatter Corrected Atomic Fluorescence Spectrometry." Prof. J.C. Van Loon.

**Wednesday, November 27**  
**Paul Gerard Giles Cardinal**, Department of Aerospace Science & Engineering, "A Study of Laser Induced Ionization of Alkali Metal Vapours Based on Saturation of the First Resonance Transition." Prof. R.M. Measures.

**Patricia Petersen**, Department of Political Science, "The Evolution of the Executive in City Government in Toronto." Prof. J.S. Dupré.

**Thursday, November 28**  
**Rosemary Mwazwa** Mundangapfuti, Department of Education, "The Distinction of Magico-Traditional from Scientific Beliefs in the Teaching of Science in Africa." Prof. I. Winchester.



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1984 Provincial Winners

## Positions Elsewhere

Notice of the following vacancies outside the University has been received by the Office of the President.

**Capilano College**  
President (Chief Executive Officer), commencing in the spring of 1986. Deadline for applications: November 5, 1985.  
Contact: Chairman, President's Search

**Committee, Capilano College**, 2055 Purcell Way, North Vancouver, B.C. V7J 3H5

**University of Ottawa and Carleton University**  
Joint Chair in Women's Studies; two to five-year term faculty position at the senior associate or full professor level beginning September 1, 1986. Can-

didates must be bilingual. Deadline for applications: December 15, 1986.  
Contact: The Chair, Joint Coordinating Committee for the Chair in Women's Studies, 538 King Edward Ave., Ottawa, K1N 6N5



# Notebook

Lots of people talk about air pollution, but at the athletic centre somebody's decided to do something about it. Carl Shiffman, advertising executive and alumni member, has set up a gym gear cleaning operation outside the men's locker room called Personal Athletic Laundry Services (PALS). For \$2 your sour socks and tainted T-shirts will be stuffed in a nylon mesh bag and freshened up in time for tomorrow's workout. Frank Pindar, an administrative coordinator at the centre, says the service is common at clubs that cater to members who may not want to cart equipment around. "Whether or not they think people otherwise would put on their gym shorts too often, I have no idea."

So far, alas, business stinks. Says Shiffman: "I just hope those 150 people who said [in his survey] they wanted the service start to use it." They shouldn't be hard to find.

★

Elsbeth Cameron, the New College senior tutor whose new biography of Irving Layton has become the *cause célèbre* of the national literary scene, takes a philosophical attitude toward the repeated attacks of the indignant poet. "Isn't it like another chapter of my book?" she asks. "That's my view of it; he's just showing his true colours once again."

"What can I say? The guy is raging around and insulting me at every opportunity. But I wouldn't put it past him to have some sort of friendly resolution. Because again, if you read my book, you'll see he has entered into these temper tantrums with other people and ended up being friendly."

The feud has made her plenty of friends in the publishing business, she confesses; she has no lack of offers from various individuals and publishers to start another biography. Then there are appearances on television's "The Journal", and radio's "Morningside" and "State of the Arts". The only setback to her growing celebrity came with the collapse of the Toronto Blue Jays. She was slated to provide colour stories on the World Series for *The Globe and Mail*.

"I'm getting to the point where I really have to decide what to do next," Cameron admits, as she prepares for a book promotion tour of Atlantic Canada.

The Association of Graduate Schools, which held its 1985 conference in Toronto last month, has a committee known officially as the Dwarfs. It met for a reception and dinner on Oct. 5 and for lunch and meetings the following day.

The Dwarfs are not graduates of a mini-school in Lilliput. They are a subgroup of provosts and graduate deans from Stanford, Berkeley, Chicago, Columbia, Brown, Harvard, MIT, Princeton, Yale and Cornell. Some years ago, explained Alison Casarett, graduate dean at Cornell, seven provosts in charge of graduate schools used to get together regularly. One day, the secretary of the one who coordinated the meetings was out of the office when he was trying to locate the group's file. He called her to ask where to look, and she told him it was filed under "dwarfs".

The name stuck, though it has sometimes been spelled "dwarves", depending on the orthographical leanings of the coordinator. (The OED gives either spelling.) In time a group of the deans' assistants sprang up. It, of course, is called the Elves. "They do the work," explained Casarett.

She said there have been some lively discussions with hotel staff when the association asks to have events involving the Dwarfs posted. But, as there is no other name, Dwarfs it is on bulletin boards and correspondence.

★

The executive of the Scarborough College Faculty Club has decided that products of Carling O'Keefe, a substantial portion of which it says is owned by the Rembrandt Group of South Africa, will no longer be purchased for consumption at the club.

★

Former Ontario premier the Hon. William Davis donated the \$1,000 honorarium for his speech during National Universities Week at U of T to the Kathleen and William Davis Scholarship-Bursary Fund for University College students. The former premier graduated from UC in 1951.

## Classes in management for academic administrators

by Arthur Kaptainis

Cutbacks hit a department, discreetly dubbed XYZ. One position must go. A current vacancy in the secretarial pool is the obvious choice; but a new academic program needs that secretarial support. So two administrative assistants become the candidates; one with 15 years' experience, one with eight, both performing similar tasks, neither showing any affection for the other. What does the chairman do?

As it happens, he chooses the employee with more seniority, a frequent absentee who in his opinion is more expendable. The fired staff member takes the issue to the Grievance Board, and the chairman botches his case. The worker is reinstated.

How this problem might have been avoided was one of several management issues discussed at orientation seminars held at Hart House last Tuesday and Thursday. The meetings, organized by the provost's office, were intended to give 46 new senior academic administrators grounding in day-to-day management techniques, and an opportunity to acquaint themselves with the "current set of actors" in the personnel department and the provostial offices.

"It was an attempt to bring people together and let them know whom to call and to make them feel at ease about calling," said Vice-Provost (Staff Functions) David Cook.

"We're trying to encourage them to check in," concurred personnel director Eleanor DeWolf, "and familiarize them, via the case studies, with some of the pitfalls their colleagues have in fact fallen into."

Besides open discussions of genuine case studies, the seminars featured talks by Vice-President — Business Affairs Alec Pathy, Comptroller Chris Torres, and the managers of the budget, accounting and payroll departments. Acting Vice-President & Provost Charles Hollenberg spoke on policies surrounding appointments, tenure, promotions, and terminations.

The seminars were needed, said DeWolf, because new deans and chairmen often arrive in their positions with little or no background in personnel and financial management.

"There are many things one looks for in a chairman, but the overriding consideration is not, of course, administration experience or aptitude. One is looking for academic qualities of leadership, eminence, and so on."

Melvin Fuss, chairman of the economics department since last July, agrees that much of the freshman administrator's agenda will come as a surprise: "I've certainly had several

cases come to me since I became chairman for which nothing in my training would prepare me particularly.

"I think most of the new administrators at those meetings had no experience dealing with non-academic personnel, so it's something of a revelation to see the difficulties one can get into in that area."

Chemistry chairman Stuart Whittington, also new to the job in July, said he was surprised to discover how much "nitty-gritty" administrative work — such as payroll transfers — fell directly on the lap of the chairman. At Oxford, he said, where he spent a year on sabbatical, an administrative officer under the chairman handles many of these affairs. About his current position, he said: "I had this picture that I would paint with a broad brush, and everything would get done."

DeWolf, who spoke at both sessions on personnel management, said the principal message she wanted to get across to chairmen was that staff members working for their department constitute a University resource.

"It is the University rather than the department that is the employer in law. So department heads have an obligation to pay attention to University policies. There are some things they don't have the freedom to do. One of these is to ignore what the personnel department advises."

DeWolf said she expects the sessions to become an annual event, perhaps with informal follow-up sessions scheduled throughout the year.

## Farber awarded honorary degree

Emmanuel Farber, professor of pathology and biochemistry at U of T since 1975 and chairman of pathology from 1975 to 1985, received an honorary degree from the University of Torino in Torino, Italy in October. The degree, Doctor of Medicine and Surgery, *honoris causa*, was awarded in recognition of fundamental contributions to understanding how environmental chemicals induce cancer, including many of the steps in the process. A native of Toronto, Farber received an MD degree from the University of Toronto and a PhD from the University of California, Berkeley.

1985 St. Basil Lectures in Preaching

**REGINALD H. FULLER**

Professor Emeritus,  
Virginia Theological Seminary

**"THE PLACE OF THE SERMON**

**IN THE LITURGY"**

Thursday, Nov. 21, 1985  
8 p.m.

a short lecture and panel discussion  
on

**"THE RELATION OF WORD**

**AND SACRAMENT"**  
Friday, Nov. 22, 1985

2 p.m.

Panel members: Ellen Leonard  
Attila Mikloschazy  
Paul Wilson

Brennan Assembly Hall  
University of St. Michael's College,  
Faculty of Theology

## Service of Remembrance

Soldiers' Tower

Hart House

Monday, November 11 at 10.40 a.m.

All members of the University are invited to attend this simple but significant event.

**University of Toronto  
Alumni Association**

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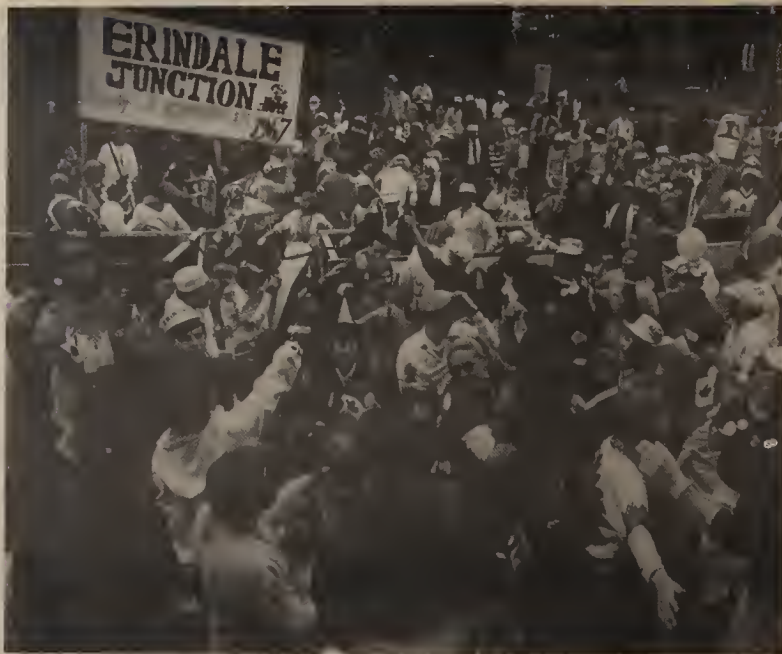
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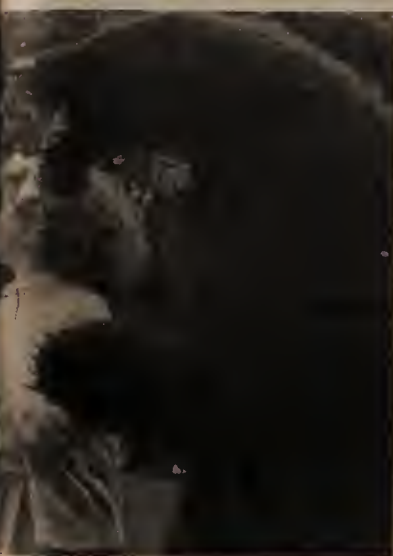
## National Universities Week 1985

There was something to appeal to everyone during National Universities Week at U of T. Seen here are some of the events that attracted thousands to the University: the homecoming parade on the front campus; Canada's ambassador to the UN, Stephen Lewis, speaking at Scarborough College; a booksale at Trinity College; and a historical walking tour, led by Donald Jones of *The Toronto Star*.

Photos by Steve Behal









# Events

## Lectures

**Absolute Pitch.**  
*Monday, November 4.*  
Prof. Andrzej Rakowski,  
Chopin Academy of Music,  
Warsaw. 1078 South  
Building, Erindale College.  
4.30 p.m.

**The Uniqueness of the Holocaust.**  
*Monday, November 4.*  
Prof. Jacques Kornberg,  
Department of History and  
Jewish Studies Program. 117  
Ramsay Wright Zoological  
Laboratories. 7.30 p.m.

**Towards a Feminist Standpoint for Psychology.**  
*Monday, November 4.*  
Prof. Jeri Dawn Wine, Ontario  
Institute for Studies in  
Education; Popular Feminism  
lecture and discussion  
series. 2-212 OISE, 252  
Bloor St. W. 8 p.m.  
(Women's Studies in Education,  
OISE)

**Vestimentary Markers and Political Communications in Mikhail Bulgakov's Days of the Turbins.**  
*Tuesday, November 5.*  
Prof. Boris Christa, University  
of Queensland. Upper  
Library, Massey College.  
4.10 p.m.  
(Slavic Languages &  
Literatures, Russian & East  
European Studies and Arts  
& Science Challenge Fund)

**The Neurobiology of Cognition: From Membrane to Microchip.**

**Spatial Firing Properties of Neurons in the Hippocampal Formation.**  
*Tuesday, November 5.*  
Dr. J.B. Ranck, Jr., State  
University of New York,  
Brooklyn.

**Artificial Intelligence and Visual Processing.**  
*Tuesday, November 12.*  
Prof. S. Zucker, McGill  
University.  
Neuroscience lecture series.  
2172 Medical Sciences  
Building. 5 p.m.  
(Computer Science,  
Neurosurgery, Psychology,  
Playfair Neuroscience and  
Faculty of Medicine)

**Why Diet?**  
*Tuesday, November 5.*  
Prof. Janet Polivy, Department  
of Psychology, Erindale  
College. Council  
Chamber, South Building,  
Erindale College. 8 p.m.  
Tickets \$5, students and  
senior citizens \$4.  
*Information and tickets:*  
828-5214.  
(Associates of Erindale)

**Forest Damage and Acidic Precipitation.**  
*Wednesday, November 6.*  
S.N. Linzon, Ontario  
Ministry of the  
Environment.

**Coping with the Spruce Budworm — The Technology Factor.**  
*Thursday, November 7.*  
H.J. Irving, Forest Protection

Limited, Fredericton.  
E.B. Eddy distinguished lectures.  
Auditorium, Addiction  
Research Foundation.  
12 noon.  
(Forestry)

**New Zealand's Nuclear Allergy — Resisting Militarization of the South Pacific.**  
*Wednesday, November 6.*  
Owen Wilkes, Peace Movement  
of Aotearoa, New Zealand. 179 University College.  
5.15 p.m.  
(Science for Peace)

**Fantasy, Computation and Reality.**  
*Wednesday, November 6.*  
Prof. Nils J. Nilsson, Stanford  
University; Bronowski  
memorial lecture. Wetmore  
Hall, New College, Classic  
Ave. 8 p.m.  
(New College, New College  
Student Council and CIL Inc.)

**Canadian Perspectives.**  
**Depression and Emotion.**  
*Thursday, November 7.*  
Prof. L. Krames, Department  
of Psychology, Erindale  
College.

**Canadian Music.**  
*Thursday, November 14.*  
Dean Carl Morey, Faculty of  
Music.

**A Look at Post-War Japanese Success.**  
*Thursday, November 21.*  
Prof. M. Donnelly, Department

of Political Science.  
Sixth, seventh and eighth in  
series of nine. Council  
Chamber, South Building,  
Erindale College. 10 a.m. to  
12 noon.  
*Information and tickets:*  
Maryann Wells, 828-5214.  
(UTAA Senior Alumni,  
Associates of Erindale and  
Meadowdale Seniors)

**1985: Reports from Nairobi.**  
*Thursday, November 7.*  
Jackie Claxton, Women's  
Program, Secretary of State.

*Thursday, November 14.*  
Nikita Crook-Stevens and  
Phyllis Sereda, Women's  
Studies Program.

*Thursday, November 21.*  
Prof. Shelagh Wilkinson,  
York University.  
Women's Studies bag lunch  
talks. Library, New College.  
20 Willocks St. 12 noon.

**The Hermeneutics of (Inter)subjectivity: the Mind Body Problem Deconstructed.**  
*Thursday, November 7.*  
Prof. Cary Madison,  
McMaster University. 144  
University College. 4 p.m.  
(Philosophy)

**The Diet and Cancer Conundrum.**  
*Thursday, November 7.*  
Barbara A. Underwood,  
National Institutes of  
Health, Bethesda; Edna W.  
Park lecture. Auditorium,  
Medical Sciences Building.  
8 p.m.  
(Household Science Alumni  
Association)

**A Noradrenergic Efficiency Hypothesis of Affective Disorder.**  
*Friday, November 8.*  
Dr. William Z. Potter,  
National Institute of Mental  
Health, Washington, DC.  
Auditorium, Clarke Institute  
of Psychiatry. 1 p.m.  
(Clinical  
Psychopharmacology)

**Royal Canadian Institute. Extra-Sensory Deception.**  
*Sunday, November 10.*  
Henry Gordon, Committee  
for the Scientific Investigation  
of Claims of the  
Paranormal and Toronto  
Sunday Star.

**Life in the Arctic.**  
*Sunday, November 17.*  
George D. Hobson, Energy  
Mines & Resources Canada,  
Ottawa.

**Archaeometry: New Tools for the Study of Ancient Artefacts.**  
*Sunday, November 24.*  
University Prof. Ursula M.  
Franklin, Department of  
Metallurgy & Materials  
Science.  
Auditorium, Medical  
Sciences Building. 3 p.m.

**The Intellectuals' Role in the Modern World.**  
*Tuesday, November 12.*  
Prof. Reinhard Bendix, University  
of California,  
Berkeley; Snider visiting lecturer  
at Scarborough. S-319  
Scarborough College. 4 p.m.

**Mathematical Models for Increasing Security in International Relations.**  
*Wednesday, November 13.*  
Prof. Mark Reitman, University  
of Illinois. 179 University  
College. 5.15 p.m.  
(Science for Peace)

**The Art of the Hittites.**  
*Wednesday, November 13.*  
Prof. Hans C. Côtterbock,  
University of Chicago. 3154  
Medical Sciences Building.  
8 p.m.  
(Society for Mesopotamian  
Studies)

**The Metaphysical Meaning of the Exclusion of Metaphysics from the Husserlian Phenomenological Method.**  
*Thursday, November 14.*  
Prof. Jose Huertas-Jordan,  
Wilfrid Laurier University.  
144 University College.  
4 p.m.  
(Philosophy)

**The Differentiation and Maintenance of the Eye: A Focus for Interdisciplinary Studies.**  
*Monday, November 18.*  
Dr. Ruth Clayton, University  
of Edinburgh; Rosenstadt  
lecture. 4279 Medical  
Sciences Building. 4 p.m.  
(Medical Genetics)

**The Mother Tongue: The Maternal Voice in Classic Cinema.**  
*Monday, November 18.*  
Prof. Kaja Silverman, Simon  
Fraser University. Innis  
College Town Hall. 4.10 p.m.  
(Cinema Studies and  
Women's Studies)

**Molecular Genetics in Neurobiology.**  
**Genes Coding for Ion Channels and Neurotransmitter Receptors in Nerve and Muscle.**  
*Tuesday, November 19.*  
Prof. N. Davidson, California  
Institute of Technology;  
neuroscience lecture series.  
2172 Medical Sciences  
Building. 5 p.m.  
(Medical Genetics, Faculty of  
Medicine and HSC Research  
Institute)

**Answering Einstein's Challenge: Images for Survival.**  
*Wednesday, November 20.*  
Andrew Pakula, consultant  
in applied social research and  
computer applications. 179  
University College. 6.15 p.m.  
(Science for Peace)

**Where Is Christianity Going?**  
*Wednesday, November 20.*  
Prof. Hans Küng, University  
of Tübingen, visiting  
Religious Studies. Meeting  
Place, Scarborough College.  
8 p.m.  
Tickets free but required.  
*Information and reservations:*  
284-3243.

**Culture and Trade.**  
*Thursday, November 21.*  
Prof. Charles Doran, Johns  
Hopkins University, 1986  
Bissell professor of  
Canadian-American Relations;  
second in series of  
four, Canada and the United  
States: Mutual Vulnerabilities.  
George Ignatieff  
Theatre, Trinity College.  
8 p.m.  
(International Studies)

**Hockey Canada.**  
*Sunday, November 24.*  
Alan Eagleson, NHL  
Players' Association; Dons'  
Brunch and Speaker series.  
I.M. Spiegel Hall, South  
Building, Erindale College.  
11 a.m.  
Tickets \$6, students \$5, must  
be picked up by Thursday  
preceding session.  
*Information: Housing office,*  
828-5286 or 828-5279.

# Payroll Deductions

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## Colloquia

**Short-Term Variability in Be Stars.**  
*Wednesday, November 6.*  
Chris Stagg, Department of  
Astronomy. 137 McLennan  
Physical Laboratories.  
3.10 p.m.  
(Astronomy)

**A Personal Goal Theory of Altruism, Aggression and Group Violence (Genocide).**  
*Wednesday, November 6.*  
Prof. Ervin Staub, University  
of Massachusetts. 2135  
Sidney Smith Hall. 4 p.m.  
(Psychology)

**Nonlinear Transport Processes and Irreversible Thermodynamics.**  
*Thursday, November 7.*  
Prof. B.C. Eu, McGill University.  
428 Lash Miller  
Chemical Laboratories.  
1 p.m.

**Transition to Chaos in Hydrodynamic Systems.**  
*Thursday, November 7.*  
Prof. S. Orszag, Princeton  
University. 102 McLennan  
Physical Laboratories.  
4 p.m.  
(Physics)

**Studies of Cepheids in the Infrared.**  
*Friday, November 8.*  
Doug Welch, Department of  
Astronomy. 137 McLennan  
Physical Laboratories.  
3.10 p.m.  
(Astronomy)

**Statistical Thermodynamics of Surface Aggregates: Equation of State of Phospholipid Monolayers.**  
*Friday, November 8.*  
Prof. R.S. Cantor, Dartmouth College. 158 Lash  
Miller Chemical  
Laboratories. 3.30 p.m.

**Lattice Vibrations in Glasses.**  
*Thursday, November 14.*  
Prof. R. Pohl, Cornell University.  
102 McLennan  
Physical Laboratories.  
4 p.m.  
(Physics)

**Gear-Locked Molecules.**  
*Friday, November 15.*  
Prof. K.M. Mislow,  
Princeton University. 158  
Lash Miller Chemical  
Laboratories. 3.30 p.m.

**Family Symmetries.**  
*Thursday, November 21.*  
Prof. S. Dimopoulos, Stanford University. 102  
McLennan Physical  
Laboratories. 4 p.m.  
(Physics)



# Events

## Seminars

**The Social History of Medieval Jewry: Recent Geniza Scholarship.**  
Monday, November 4  
Prof. Abraham L. Udovitch, Princeton University; Joseph and Gertie Schwartz memorial lecturer. Croft Chapter House, University College. 3 p.m.

**Health Habits of Students in Relation to Educational and Social Pressures.**  
Monday, November 4  
Prof. V. Marshall, Department of Behavioural Science, 330 Benson Building. 4 p.m. (P&HE)

**Economic Policy: How to Get the Economy Moving Again?**

**Macro-economic Policy and the Full Employment of Resources.**  
Monday, November 4  
Prof. John Helliwell, University of British Columbia.

**Economic Policy: How Much Public Policy? How Much Market Economy?**

Monday, November 11  
Grant Reuber, Bank of Montreal.

**Research and Technology and Economic Growth.**  
Monday, November 18  
Dr. Stuart Smith, Science Council of Canada.

**Labour Market Policy and Economic Growth.**  
Monday, November 25  
David Dodge, Department of Finance.

**Public policy workshops.**  
3050 Sidney Smith Hall. 4 to 6 p.m.  
(Political Science)

**Alphabetic Literacy and the Western Mind.**  
Monday, November 4  
Prof. Derrick de Kerckhove, McLuhan Program in Culture & Technology; Problems in Literacy series.  
Coach House, 39A Queen's Park Cresc. E. 7.30 p.m. (McLuhan Program)

**Semiotics as a Modelling System: Artificial Intelligence and Structured Reasoning in the Social Sciences.**

Tuesday, November 5  
Jean Claude Gardin, Ecoles des hautes études en science sociale et centre nationale de la recherche scientifique, France; cognitive science/semiotic seminar. Coach House, 39A Queen's Park Cresc. E. 7.30 p.m. (McLuhan Program)

**Making News.**  
Wednesday, November 6  
Prof. Paul Rutherford, Department of History; What's News seminar series. Coach House, 39A Queen's Park Cresc. E. 7.30 p.m. (McLuhan Program)

**Current State of Clinical Cardiac Mapping.**  
Thursday, November 7  
Dr. Ian Parson, Department of Medicine, 412 Rosebrugh Building. 1 p.m. (Biomedical Engineering)

**Outrageous Capers: Historical Records and Present Traditions of the Morris Dance.**

Friday, November 8  
David Parry, Pouch Ludique Societas, and Alan Somerset, panel discussion. Front Common Room, UC Union, 79 St. George St. 12 noon. (REED and PLS)

**The Influence of Community Structure on the Daily Lives of Women.**

Friday, November 8  
Prof. William Michelson, Department of Sociology and Centre for Urban & Community Studies; Urban & Community Studies Brown Bag series. Room 204, 455 Spadina Ave. 12.15 p.m.

**Legal Theory Workshop Series.**

**High Constitutionalism: Reading the Ideas of the Canadian Constitution.**  
Friday, November 8  
Prof. John Whyte, Queen's University.

**Agent Orange.**

Friday, November 22  
Prof. Peter Schuck, Yale Law School, Falconer Hall. 1.10 to 2.45 p.m.

**Copy of paper in advance \$3 (includes lunch) from Verna Percival, Faculty of Law, 978-6767.**

**An Introduction to the Bibliography of the Renaissance Printed Book.**

Forms of the Early Printed Book.  
Friday, November 8

**The Illustrated Book of the Renaissance.**

Friday, November 15  
Systems of Cataloguing Early Printed Books.  
Friday, November 22  
W.W. Barker, Centre for Reformation & Renaissance Studies; third, fourth and fifth in series of six. 316 Pratt Library, Victoria College. 2 to 4 p.m.  
Information and pre-registration: 978-3929.

**Dionysius on the Social and Political Structure of Early Rome.**

Friday, November 8  
Prof. Emilio Gabba, Università di Pavia and Institute for Advanced Studies, Princeton. 148 University College. 3 p.m. (Classics)

**Biotechnological Potential of Plant Cell Culture.**

Friday, November 8  
M. Misawa, Alelix Inc., Mississauga. Room 7, Botany Building. 3.30 p.m.

**Therapeutic Effects of Pulsed Magnetic Fields.**

Tuesday, November 12  
Prof. T.M. Srinivasan, Indian Institute of Technology, Madras; series on interaction of electric and magnetic fields with living matter. Room 111, 1 Spadina Cresc. 11 a.m. (Ophthalmology and MRC Group in Periodontal Physiology)

**Recent Advances in Mutagenesis and Cloning.**  
Wednesday, November 13  
Dr. Per Lindstrom, Pharmacia Molecular Biology. 235 Fitzgerald Building. 12 noon. (Microbiology)

**Rhetorica Disputatio: Cicero's Tactics in de Finibus, Books I and II.**

Friday, November 15  
Prof. Brad Inwood, Department of Classics. 148 University College. 3 p.m. (Classics)

**Selective Fruit Abortion in Plants and Its Effect on Offspring Quality.**

Friday, November 15  
Prof. A. Stephenson, Pennsylvania State University. Room 7, Botany Building. 3.30 p.m.

**Psycho-Physiological Effects of Positive Mood States.**

Monday, November 18  
Prof. J.V. Daniel, School of Physical & Health Education. 330 Benson Building. 4 p.m. (P&HE)

**Correlates of Intellectual Functioning in Elderly Men.**

Tuesday, November 19  
Dr. Dolores Gold, Sunnybrook Medical Centre. Room 409, 455 Spadina Ave. 3 to 5 p.m. (Gerontology)

**Law and Economics Workshop Series.**

**Unification of Economics and the Other Social Sciences.**  
Wednesday, November 20  
Prof. Mancur Olson, University of Maryland. Solarium, Falconer Hall. 12 noon to 1.45 p.m.  
Copy of paper in advance \$3 (includes lunch) from Verna Percival, Faculty of Law, 978-6767.

**Quem Queritis: The Easter Dramas before 1500.**

Friday, November 22  
Prof. Timothy McGee, Faculty of Music. Front Common Room, UC Union, 79 St. George St. 12 noon. (REED and PLS)

**Application of Biotechnology to Crop Improvement.**

Friday, November 22  
Prof. W. Beversdorf, University of Guelph. Room 7, Botany Building. 3.30 p.m.

**Cultural Barriers and Newscowage.**

Monday, November 25  
Prof. Jerzy Wojciechowski, University of Ottawa; What's News seminar series. Coach House, 39A Queen's Park Cresc. E. 7.30 p.m. (McLuhan Program)

## Meetings & Conferences

**Music Means Harmony: Music Educators Tackle Multiculturalism.**

Saturday, November 16  
Workshop will include sessions on the music of China, Latin America, India, Trinidad, Native North America, Africa, Italy and Egypt and papers on multicultural music education. Edward Johnson Building. 8 a.m. to 5 p.m.  
Information: 978-3751. (Faculty of Music, Secretary of State and Ontario Music Educators' Association)

**Women, Institutions and the Morality of Manipulative Power.**

Tuesday, November 19  
Prof. Kathryn P. Morgan, Department of Philosophy and Women's Studies Program. University Women's Club, 162 St. George St. 7.30 to 9 a.m.  
Information: 978-2665. (U of T Women's Network)

**Image Processing and Vision Modelling.**

Tuesday, November 19  
Keynote speakers: Prof. John Tsotsos, Department of Computer Science, Image Analysis and Artificial Intelligence; and Prof. Edward Jernigan, University of Waterloo, Image Processing: Lessons from Vision. Overview of research activities: Pattern Analysis and Machine Intelligence Lab, Remote Sensing in Environmental Studies, Image Processing in Biomedical Engineering, Digital Filtering and Image Processing. Group discussions: Image Analysis and Artificial Intelligence, Image Processing and Vision Modelling, and Applications: medical and biomedical, remote sensing, robot vision, graphics workstations, etc. Siegfried Hall, St. Jerome's College, University of Waterloo. 10.15 a.m. to 5 p.m.

Waterloo. 10.15 a.m. to 5 p.m.  
Registration fee: members, affiliates and subscribers of Cooperative on Information Technology \$40, non-members \$70, students \$10. Information and registration: 978-5460.

**Katedra at V.**  
Saturday, November 23  
Celebration of the fifth anniversary of the establishment of the Chair of Ukrainian Studies. Program includes Luba Goy, Royal Canadian Air Force, CBC; Joanne Kolomyjec, Canadian Opera Company; and book and picture display. Hart House. 6.30 p.m.  
Tickets \$35 include dinner, call 978-2367 or 920-2111. Information: Department of Alumni Affairs, 978-8391; or Ukrainian Studies Foundation, 920-2111. (UTAA and Chair of Ukrainian Studies Foundation)

## Governing Council & Committees

**Committee on Campus & Community Affairs.**

Tuesday, November 5  
Council Chamber, Simcoe Hall. 4 p.m.

**Academic Affairs Committee.**

Thursday, November 14  
Council Chamber, Simcoe Hall. 4 p.m.

**Planning & Resources Committee.**

Monday, November 18  
Council Chamber, Simcoe Hall. 4 p.m.

**Business Affairs Committee.**

Wednesday, November 20  
Council Chamber, Simcoe Hall. 4 p.m.

**Governing Council.**

Thursday, November 21  
Council Chamber, Simcoe Hall. 4.30 p.m.

**Planning Subcommittee.**

Monday, November 25  
Board Room, Simcoe Hall. 4 p.m.



# N·E·W·S

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### UIG PROFILE (continued)

(We continue with our profile of the **Usr Interface Group (UIG)**)

The micro explosion has kept the **Micro Support Group** very, very busy. Evaluation of micro hardware and software occupies a large part of their time. An increasing number of old and potential micro users are using these evaluations before making a purchase. If available in the Micro Lab, users can also have a demonstration of a particular piece of hardware or software.

In addition to direct consultation, the Micro Group answers numerous queries over the phone and through the BBS — the micro Bulletin Board System. This free service also allows users to exchange data between themselves. "For Sale" items and a large selection of public domain software appear on the BBS.

If you have any questions about micro hardware or software, give the Micro Group a call (978-6701). In the long run they'll probably save you both time, money and a lot of frustration.

Information Services comprises the **Information Office, Education Services and Publications**. The Info Office contains a reference library for software available on UTCS systems. Certain manuals for the more popular software packages, such as SAS and SPSS-X, are brought in and any other manuals may be ordered on request. The Info Office also sells some micro-based software, and users can buy a copy of KERMITE there for about the cost of a diskette. (KERMITE is a micro software package that allows file transfer between micros and mainframes.)

UTCS offers over one dozen non-credit short courses on various UTCS products. Course schedules and registration are handled through Education Services.

Publications is the largest part of Information Services. Pubs staff produce the UTCS newsletter **COMPUTERNEWS** and maintain over 40 Catalogues or Guides to UTCS services. Most of these may be obtained online. Those of an introductory nature are also available in hard-copy format from the Info Office.

Information Services can be contacted at 978-4990.

### Micro Laser Printing

UTCS is announcing a new product that brings laser printer quality and speed to micro owners at reasonable cost.

Micro owners can enter documents on their own micro systems using almost any word processing package. The document is formatted for a Diablo 630 daisy wheel printer but the output is directed to a file instead of to a printer. This file is transferred to the UTCS CMS system for translating and printing on the Xerox 8700 laser printer.

Print styles such as bold, underlined, superscript, subscript and many foreign language characters are supported on the 8700 laser printer.

This service is particularly useful for very long documents. You don't have to fight with ribbons and you don't have to feed in sheets of paper. You'll also appreciate its quiet operation. Transferring the document can be done from your office (if you have a modem or PACX connection) or you can bring IBM/PC compatible floppies to our Micro Lab (Room 257, McLennan Physical Labs) and transfer them from there at a very high speed.

A UTCS CMS account is required for this service. Most documents cost less than \$15 per page to print one copy (university rates). Additional copies cost about \$.05 per page. These charges are billed to the CMS account.

For more information contact Terry Jones: 978-4924.

Communications and Computer Systems Consulting	978-4967
General Advising	978-HELP
Statistical Advising	978-STAT
Marketing	978-6875
Micro Support	978-8701



# Events

## Concerts

### FACULTY OF MUSIC EDWARD JOHNSON BUILDING

**Thursday Noon Series.**  
*Thursday, November 14*  
Music by student composers.

*Thursday, November 21*  
Musicians as Teachers,  
Graham Wishart, Oakwood  
Collegiate Institute.  
Walter Hall, 12.10 p.m.

**U of T Guitar Ensemble.**  
*Thursday, November 14*  
Directed by Eli Kassner.  
Walter Hall, 8 p.m.  
Tickets \$3.

**Boris Lysenko, Piano.**  
*Sunday, November 17*  
Walter Hall, 3 p.m.  
Tickets \$3.

**University Singers.**  
*Monday, November 18*  
Michael Coghlan, conductor.  
Walter Hall, 8 p.m.  
Tickets \$3.

**A Recent Discovery. "Il  
viaggio a Reims", by G.  
Rossini.**  
*Thursday, November 21*  
Prof. Philip Gossett, University  
of Chicago. Room 978.  
7.30 p.m.

*Information on all events in  
Edward Johnson Building  
available from the box office,  
978-3744.*

### ROYAL CONSERVATORY OF MUSIC.

**Art Gallery Series.**  
*Monday, November 10*  
Martin Beaver, violin.  
Walker Court, Art Gallery of  
Ontario, 3 p.m.  
(Northern Telecom Ltd.)

**Royal Conservatory  
Orchestra.**  
*Friday, November 15*  
Robert Marcellus, conductor.  
Church of the Redeemer,  
Bloor and Avenue Rd. 8 p.m.  
Tickets \$9.50 and \$6.50;  
students, senior citizens and  
handicapped \$7 and \$4.50.  
RCM box office, 978-5470.

*Information on all Conser-  
vatory concerts available  
from publicity office,  
978-3771.*

**Scarborough College.**  
*Sunday, November 10*  
Phil Nimmons Jazz Quartet;  
first in series of five Sunday  
Serenade concerts. Meeting  
Place, 3 p.m.

## Exhibitions

**Justina M. Barnicke  
Gallery, Hart House.**  
*To November 7*  
Makove Collection - Part I,  
prehistoric, early Christian,  
Byzantine and post-  
Byzantine objects.  
Gallery hours: Tuesday to  
Saturday, 11 a.m. to 6 p.m.

**Scarborough College.**  
*To November 15*  
Francesca Vivenza, works on  
paper.

*November 19 to December 13*  
Landon MacKenzie,  
paintings.  
Gallery hours: Monday to  
Thursday 9 a.m. to 7 p.m.,  
Friday 9 a.m. to 5 p.m.,  
Sunday 2 to 5 p.m.

**Roberts Library.**  
*To November 21*  
The United Nations at 40.  
South lobby display case.  
(Public & Community  
Relations)

*To November 27*  
The Holocaust: Before,  
During and After,  
photographic exhibition.  
Main display area.  
(Public & Community Relations  
and Jewish Students'  
Union/B'nai Brith Hillel  
Foundation)

**Faculty of Architecture &  
Landscape Architecture**  
*November 6 to 23*  
Frankfurt: New Buildings in  
a Historic Context. Galleries,  
230 College St.  
Gallery hours: Monday-  
Friday, 9 a.m. to 5 p.m. ex-  
cept Thursday to 8 p.m.

**Thomas Fisher Rare Book  
Library.**  
*To January 8*  
Cambridge University Press:  
Four Hundred Years of  
Printing, 1584-1984.  
Hours: Monday-Friday,  
9 a.m. to 5 p.m.

## Plays, Readings and Opera

**UC Poetry Readings.**  
*Wednesday, November 6*  
Craig Raine, read by René  
Graziani.

*Wednesday, November 13*  
Mary di Michele, writer-in-  
residence, reading her own  
work.

*Wednesday, November 20*  
Thomas Gray, read by Hugo  
de Quehen.  
Walden Room, UC Union, 79  
St. George St. 4.10 p.m.

**Lorna Crozier.**  
*Monday, November 11*  
Poet will read from her book  
*The Garden Going on*  
*Without Us*. R-3230 Scar-  
borough College, 8 p.m.

**Death of a Salesman**  
*November 12 to 16*  
By Arthur Miller, presented  
by Scarborough campus  
"Rising Stars", Harbour-  
front Studio Theatre.  
8.30 p.m.  
Tickets \$6, students and  
senior citizens \$4, from  
Harbourfront box office,  
869-8412, or BASS.

**The Trojan War.**  
*November 13 to 16 and  
20 to 23*  
"Iphigenia in Aulis" and  
"The Trojan Women" by  
Euripides; Graduate Centre  
for the Study of Drama  
1985-86 Hart House Theatre  
season. Performances 8 p.m.  
Tickets \$8, students and  
senior citizens \$4.  
*Reservations: Monday to  
Friday 11 a.m. to 5 p.m.,  
performance Saturdays only,  
1 to 5 p.m.; lobby box office  
open 5 p.m. to curtain time.  
Box office: 978-8668.*

**Opera Excerpts.**  
*Friday, November 15 and  
Saturday, November 16*  
Fully staged and costumed  
excerpts by opera division,  
Faculty of Music, MacMillan  
Theatre, Edward Johnson  
Building, 8 p.m.  
Tickets \$3.  
*Information: 978-3744.*

**The Servant of Two  
Masters.**  
*November 19 to 24*  
By Carlo Goldoni; classic  
18th century Italian comedy;  
first of six plays in Graduate  
Centre for the Study of  
Drama studio season. Robert  
Gil Theatre, Koffler Student  
Services Centre. Tuesday to  
Saturday 8 p.m.; Sunday  
matinee 2 p.m.  
Season membership \$24,  
students and senior citizens  
\$15. Single tickets \$5, stu-  
dents and senior citizens \$3.  
*Reservations: Monday to  
Friday 11 a.m. to 5 p.m.,  
978-8668; performance box  
office opens one hour prior  
to curtain time, 586-7986.*

**The Lesson.**  
By Eugene Ionesco.  
**Present Tense.**  
By John McNamara.  
*November 20 to 23*  
Scarborough College drama  
program production. TV  
Studio One, 8 p.m.  
*Reservations: 284-3126.*

## Films

**Microbes and Men.**  
*Monday, November 4 and  
Wednesday, November 6*  
The Search for the Magic  
Bullet; Salvarsan, first of the  
miracle drugs.  
Last in six-part BBC series.  
4171 Medical Sciences  
Building, 12 noon.  
(Microbiology)

**Wages of Action.**  
*Wednesday, November 6*  
Room 153, level A.  
Audiovisual Library, Sig-  
mund Samuel Library.  
12 noon.  
(South Asian Studies)

**The Golden Age of  
American Cinema.**

**Top Hat.**  
*Thursday, November 7*

**They Made Me a Criminal.**  
*Thursday, November 14*  
Alice Moulton Room, Level  
A, Sigmund Samuel Library.  
6.30 p.m.  
(Audiovisual Library)

**Death of a Disease.**  
*Monday, November 11 and  
Wednesday, November 13*  
Nova TV series on eradica-  
tion of smallpox. 4171  
Medical Sciences Building.  
12 noon.  
(Microbiology)

**Courts and Councils.**  
*Wednesday, November 20*  
Room 153, level A.  
Audiovisual Library, Sig-  
mund Samuel Library.  
12 noon.  
(South Asian Studies)

**Unseen Enemies**  
*Monday, November 18 and  
Wednesday, November 20*  
Use of vaccines, antibiotics,  
insecticides and sprays in  
fighting infectious diseases.  
4171 Medical Sciences  
Building, 12 noon.  
(Microbiology)

**The Elusive Illness.**  
*Monday, November 25 and  
Wednesday, November 27*  
An extraordinary series of  
events and incredible strokes  
of luck led to a vaccine  
against hepatitis. 4171  
Medical Sciences Building.  
12 noon.  
(Microbiology)

## Miscellany

**Service of Remembrance.**  
*Monday, November 11*  
Soldiers' Tower, 10.40 a.m.  
To be followed by presenta-  
tion of plaque to President  
George Connell by Toronto  
branch of Canadian Naval  
Officers' Association. Map  
Room, Hart House.

**Bach and Handel 300th  
Anniversary Celebration.**

**Music and Society in the  
Baroque Age: G.F. Handel  
and His Contemporaries.**  
*Friday, November 15*

**J.S. Bach.**  
*Saturday, November 16*  
Program includes lectures  
and recitals, and exhibition,  
courtesy of the Goethe Insti-  
tute, of photodocuments of

the lives and times of J.S.  
Bach, G.F. Handel, and H.  
Schütz. Seeley Hall, Trinity  
College, 7.30 p.m.  
Tickets in advance, one even-  
ing \$8, both evenings \$14;  
members of Ontario Goethe  
Society, students and senior  
citizens, one evening \$6, both  
evenings \$10. At door, one  
evening \$9, both evenings  
\$15; members of Ontario  
Goethe Society, students and  
senior citizens, one evening  
\$7, both evenings \$12.  
*Information: 789-2771 or  
488-1960.*  
(Trinity, Ontario Goethe  
Society and Ontario Ministry  
of Citizenship & Culture)

**Convocation.**  
*Wednesday, November 20*  
Faculty of Arts & Science  
(except Erindale College),  
Woodsworth College  
diplomas and certificates.  
Prof. Joan Foley will address  
convocation.

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Robin Ross will address  
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School of Graduate Studies.  
Prof. Frances Halpenny will  
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# Is there a DOS in the house?

## or, A Hmnnnnanist Looks at the Computer

by John M. Robson

Professor John M. Robson, general editor of the *John Stuart Mill* collected works, whose family owns two computers, gave this account of his adventures in modern scholarship at the conference of the Association of Graduate Schools last month in Toronto.

Humanists suffer from special problems that make them troublesome administrative downstream units. In the battle between the two cultures, they know they have less throw weight, even if they don't know what throw weight is. One reaction is arrogance, but I know nothing about that. What I do know about is humanistic anxiety, because I see it all around me in this university, particularly in my colleague in the Anguish and Wrench program, H.O. Hmnnn, observation of whose traumas has become my major research project. H.O. Hmnnn is known familiarly both as Ho and Hmnnn, and I shall refer to him in both ways.

Most humanists' accounts of computer encounters of the expensive kind begin with admissions of physical ineptitude; you know, I can't file my nails, never mind databases, and I couldn't pluck a daisy, let alone make a daisy wheel. Not so Hmnnn: a door with a knob is an open-and-shut affair with him, and give him a screwdriver with the right sort of head and he'll screw down as often as he screws up. He also is wise enough to know that you don't buy thousands of things in K-Marts (you buy thousand-and-twenty-fours, of course), but like the best of you, he has some difficulty with instruction booklets, whose understanding awaits a yet-buried Rossetta stone with demonic script. For example, when confronted with the supposedly helpful announcement that "Procedure execution is thus 'chained' with EXECUTE and 'nested' with PERFORM," all he can think of in connection with chains is that the IBM operates on M/S DOS. M/S indeed!

Buying a home computer compounds the problem of comprehension by introducing another credibility gulp, as Hmnnn's clipping of a Doonesbury sequence shows. Mike, you may recall, is helping the Rev. Scot Sloan buy a word-processor. In the store, their request meets verbal noise:

"Hard disk or floppies? What are your storage capacity requirements? What kind of retrieval speed? How many bytes per second data transfer?" At this point Sloan turns to Mike, saying: "I knew it. He doesn't speak English. Let's go."

"Hold on, Rev.," says Mike; "Don't panic. I've got a phrase book . . ." He looks in it and reads aloud to the salesman: "Excuse me, Sir. Do you have any user-friendly sales reps?"

To which the salesman replies: "You mean, consumer-compatible liveware? No, he's off today."

In truth, Hmnnn's note says, "the liveware is always out to lunch. Hardware, software, liveware . . . let the buyer beware." What he didn't then know is that there would be an advertisement in the University of Toronto Placement Service for a "software" expert — with "ware" spelt "wear" as in lingerie expert. He also didn't then know that the most recent term (as of yesterday) in this series is "vapourware," the term for high-tech dreams that don't make it to soft, let alone hard. He is alert enough, however, to

notice that cartoons about computers have replaced those about filing systems in that sure barometer of social pressures, *The Wall Street Journal*. Some of these are captioned: "Some words were not meant to be processed"; "Excuse me, sir. The word processor is leaking"; in another, a robot crawling over a limitless desert cries piteously, "Software . . . software . . ." And in one, as though speaking directly to Ho Hmnnn, the screen itself says: "You're getting in over your head."

For indeed he was. When shopping for a micro for his explosive (or as we say, nuclear) family, he was faced by smiling jargoneseers, but with commendable calm and deep pocket he decided to buy what was then the top of the line in both microprocessor and printer from an apparently reliable firm. But when the components, hard, soft, and peripheral, were selected and delivered, the bills paid, and everything installed, it didn't seem to work. Indeed, it just didn't work all of the time, and mostly not at all.

What happened was that the machine kept going down . . . down, down, down. Or, in other jargonese, it kept hanging up. Now Ho has always had his hang-ups, but these were of another order. To illustrate let me cite the experience of Marsh Jeanneret, the former director of the University of Toronto Press. Engaged in his retirement pleasure, writing the history of the Press, he was happily entering some uniquely splendid words into the RAM of his machine — that is, of course, his Random Access Memory (there's a lot of that about) — when a power failure collapsed those words into a green dot that glowed sardonically before fading into . . . into . . . well, where? Perhaps we should substitute for that ghostly locution, "power outage", the more expressive "power outrage".

The second disaster was more common in the Hmnnn menage. The new machine, in near silence, accepted this and that deep thought and chance comment in thrilling display and then, without a squeak, the cursor would imitate Martin Luther and move no more: "*Hier stehe ich!*" When this happens, you all know, what has not been written to the disc is irrecoverable; there it is on the screen, but there and only there will it remain, until the machine is turned off, when it too will take the longest walk. What you do to prevent this is to throw money at it . . . on which subject more in a moment.

The third problem, the unintelligible stream of characters, also affected the Hmnnns at home. Sometimes the screen, having accepted a verbal flow without demur, would, again without warning, display something more assertive, strings of those characters we use to express the inexpressible, the print equivalents of the censor's bleep. The denotation of these messages is normally uncertain; during one bad spell, however, the meaning was all too clear to Hmnnn: after a few minutes of exemplary behaviour, the screen would erupt into a flowing stream of dollar signs. And no matter what was typed, the dollar signs danced and leapt suggestively.

What they suggested, of course, was money. I cannot bear to tell the tale as it happened, so let me just skim the top, as the gamblers say. It seemed that hang-ups occurred most frequently on hot days; the hot line to the cool suppliers suggested that if the top

were left off the machine it might stay cool enough to process calm thoughts. Convertibles are, of course, not the best models for Toronto weather, and topless is not the Hmnnnian home mode. Nonetheless, it was tried, but the sight of the bare bones of the machine, all too clearly revealing what the ratty case disguised, the apparent fragility and inconsequentiality of the priceless innards, and the fear that some reckless user would cash in the chips by dripping tears, sweat, and blood into the works made it mandatory to use a fan. At first, sufficient was your cheap home fan, normally used to cool the budgee, but all too soon a built-in, completely disguised expensive fan was believed necessary, especially by the customer-compatible liveware.

And that worked . . . or did it? Not always. Call your consultant, Professor. Perhaps the trouble is in the wiring. Is the computer plugged into the normal house wiring? Well, yes; the room in which it sits is only thus provided, and nobody told Ho otherwise. So run a cable to another room — but the dog likes to put a byte on that bit, and it's a superfluous challenge to the cleaning lady. OK: rewire (and that never means just one circuit, a circuit being defined as a trip to the cheque-out counter of the bank). But the repairman connects the new line (which runs through several vital areas that need surgical by-passes) to the heavy-duty line running the clothes drier and the microwave, and it comes to pass that they have messages they wish to transmit through the computer. (Actually, these messages had to wait a while, because the repairman had driven a nail through the cable running the electricity to the upper floors, and when he discovered this mishap, he took a few days' holiday in Vegas to celebrate.) The solution? A new, separate line just for the computer, which must live in another room. (Hmnnn's wife was persuaded late one evening to give up her study — but she did not go quietly into that good night.)

It will be apparent from this tale that none of the expensive manuals helped with these problems, because their assumptions included the

postulate that everything works. The sales staff of the expensive computer store didn't help; they were good at polishing the apple, but useless at squeezing the lemon. Of course, being a reliable firm, they had technicians; when they sat down to play, the machine jumped and danced, demonstrated pretty patterns, and seemed quite content. But the technicians, some of them nearly into their teens and barely out of their PhDs, couldn't talk a natural human language, and so couldn't explain either what was wrong or what was right. "This," Hmnnn used to cry, "is a real headache — a Catch 22!"

During these months certain terms fixed themselves in Hmnnn's mental matrix, and found their material embodiment in his cheque book. A new Videx card, could that be the solution? Well, yes (buy it!) and no, because it might also be the keyboard enhancer. Yes, indeedeeeee (buy it!) — but also the Z80 card ("Do you take MasterCard?"). "We need another 16K," the children would shout, "and the toggle switch to the 40-character screen is loose again!" (The fan at this point seemed to be developing an over-draught.) Hmnnn also used to complain about an Orange something, but I think he'd got his computer's quirks mixed up with some silly idea about the colour of quarks, or with an agent for the US Army. Then it was the peripherals, the printer-ribbon interface, the disk-drive incompatibility, the possibility of a helmet to protect against a head crash. How he used to chant these terms, with their prices, as he sharpened the pencils he thought he had put into obsolescence. After months of sweat, at last and at length he collapsed into my arms one day, to announce that all was well: the machine had been fixed.

Now, however, Ho had to accommodate himself to messages that the computer wanted to send to him, and he didn't want to receive. For example, "BDOS ERROR" (always, like all these messages, in screaming capital letters), and, even more insulting, "SYNTAX ERROR" — well, what's a professor of language to say to that! And, noted like all his kind

Continued on Page 14



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# Appointments

## Recent academic appointments

The following appointments were confirmed at the Oct. 10 meeting of the Academic Affairs Committee.

**Department of Economics**  
Professor David Foot, professor, from July 1, 1985

**Faculty of Social Work**  
Professor Eilene McIntyre, associate professor with tenure, from July 1, 1985

**School of Continuing Studies**  
Professor W.D. Baines, acting director, from Oct. 1, 1985 to June 30, 1986

**Professors Emeriti, from July 1, 1985**  
Professors L.J. Rubin, chemical engineering;

J.W. Senders, industrial engineering; D.F.S. Thomson, classics; D. Pokorny, economics; V.E. Graham and D.M. Hayne, French; F.K. Hare (University Professor Emeritus), P.D. Kerr and Jacob Spelt, geography; P. Brock, history; P.J. Giffen and Leo Zakuta, sociology; J.M.R. Margeson, Scarborough College; R.S. Harris, education; D.V. Love, forestry; W.B. Coutts, management studies; J.H.G. Joy, art as applied to medicine; J. Logothetopoulos, Banting & Best Department of Medical Research; Louis Siminovich

(University Professor), medical biophysics; M.W. Thompson, medical genetics; R.S. Freeman and L.W. MacPherson, microbiology; T.C. Brown and B. Cruickshank, pathology; D.W. Clarke, physiology; J.S. Bell, preventive medicine and biostatistics; R.B. Holmes, radiology; T.P. Morley and J.F. Murray, surgery; R.M. Baxter and G.R. Paterson, pharmacy; and J. Farina, social work.

## Ho Hmnnn

Continued from Page 13

for following the golden mean, how is he meant to respond to the emphatic message (on a user-friendly machine, mind you), "EXCESSIVE!" At least the machine hasn't yet told him what he heard one bank teller say to another as they glowered at the screen that should have been displaying his balance: "Terminal error".

Another message has increased his paranoia. When the house was dry and the static sparkling, Ho found he was specially embodied with electricity. Every time he approached the computer or the printer, there was an audible flash, and as he leapt red lights came on and green words went wandering. He employed all the anti-static devices (once he had found and paid for them), but nonetheless, one day, as he slid into his chair, sparks flew, and the screen displayed this amazing message: "BAD LOAD!" "Am I," he said, "when I get back from the hospital, meant to believe that someone built that message into the program so that it could lurk until I charged along?"

One other problem for our outmoded hero is that computer firms strip last names from their personnel. I've tried to tell him that it is a wide-spread phenomenon, probably spawned in California, but now pandemic. I've shown him the places in books on using computers where the service reps

(formerly representatives) are mentioned under what appear to be fake names: Donna, Barb, Kathy (usually pseudonyms). They are infinitely replaceable: just when one gets used to Donna, she, being a modular unit, is pulled out and Barb is plugged in — or is it Karen or Sheryl? Whoever it isn't, there are additional delays as one tries to get back to first base without being tagged with another tab.

Finally, to indicate that none of this can dull Hmnnn's keen edge: he and family have actually bought a second micro, for (though it would be extremely dull to say why) there have been benefits from the new technology, if not exactly positive cost-benefit ratios. With the second machine (with a different operating system) they bought a second printer (with different specifications). And they decided that they wanted the two machines to print from each of the two printers. But you see the interface is inscrutable: or, to introduce the proper jargon, the IBM has a hard handshake, and the QUME printer wouldn't accept it; it likes the soft handshake of the mellow Apple. The hard handshake will be welcomed, however, if the printer is set to 600 Bauds instead of 1200 Bauds. I don't know how many Bauds make a full house, but it seems likely that Hmnnn has the busiest if not the best bawdy house in Toronto.

# Committee Highlights

## The Academic Affairs Committee — Oct. 10, 1985

• recommended that the following be appointed members of the Committee for Honorary Degrees for 1985-86: Dan Abrahams, part-time undergraduate student, Woodsworth College; Professors J.C. Cairns, Department of History; Bernhard Cinader, Department of Medical Genetics;

Martin Friedland, Faculty of Law; and Endel Tulving, Department of Psychology; Tony Clement, full-time undergraduate student, Faculty of Law; Christina McCall, alumna, Victoria College; and Adam Zimmerman, alumnus, Trinity College  
• approved the appointment of J.R. Randall to the Subcommittee on Admissions,

Curriculum & Standards for 1985-86 and the appointment of Professor Brian Parker, Department of English, Trinity College; Professor John Simpson, Department of Sociology; and Andrew Taylor, graduate student, Centre for Medieval Studies, to the Subcommittee on Research & Academic Services for 1985-86

## Postmaster appointed

Brian Schmidt has assumed the position of postmaster/manager of mail services, effective Oct. 21. He was formerly a postmaster at the Canadian Armed Forces base in Trenton where he also acted as a classroom instructor in the Canadian Forces Postal School.

Schmidt's 21-year career in the Armed Forces has included 10 years in post office and mail service functions beginning in the Fleet Mail Office at the base in Halifax. He has also served with the North Atlantic Treaty Organization on board HMCS Anna-

polis as postmaster of the fleet, as non-commissioned officer-in-charge of the base mail room in Winnipeg and with the United Nations peacekeeping forces in the Golan Heights, Israel. While in Winnipeg, he set up and implemented the Department of National Defence Courier Service for the prairie region.

Schmidt will be responsible for the post office in Simcoe Hall and the internal campus mail service located in the North Borden Building.

## OISE to name five fellows in anniversary year

Five people will be named fellows of the Ontario Institute for Studies in Education on Dec. 2, in recognition of their outstanding contributions to education. To be honoured this year are: Hon. William Davis, former minister of education and premier of Ontario; Elise Grossberg, long-time public school trustee and charter member of the OISE Board of Governors; Professor Christopher Hodgkinson, organizational theorist, University of Victoria; Betty Oliphant, founder and director of the National Ballet School of Canada; and Shirley Stokes, former deputy director of the Federation of Women Teachers' Associations of Ontario.

The fellows awards were created in 1973 to recognize individuals who have made a specific and noteworthy contribution to education in Ontario or in Canada. Each year, nominations are invited from individual educators,

faculties of education, professional associations and ministries of education across Canada.

Three fellows are ordinarily named; two additional awards are being made this year to mark the 20th anniversary of the establishment of OISE.

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Mark it on your calendar now—Energy 2000, the New Technologies Exposition, open to Conference Registrants only on: November 18, 3:00-6:30 p.m. and to all groups on: November 19, 8:30 a.m. to 5:00 p.m. at the Toronto Hilton Harbour Castle Convention Centre.

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# Letters

## Anti-South African McCarthyism an ironic charge

Responding to my letter of Sept. 9, Cecile Schmidt from the South African Embassy rails against what she calls an "anti-South African McCarthyism" (*Bulletin*, Oct. 21). That's certainly an ironic charge from the representative of a government which brutally suppresses all opposition to apartheid on the grounds that it's all a "communist-inspired conspiracy".

She accuses me of failing to inform readers that "the South African government is committed to bringing about political changes in South Africa".

How could I have made such an inexcusable mistake? Surely, I could at least have informed readers how South Africa's government demonstrated this commitment by imposing a state of emergency during which 4,000 have been detained and more than 280 killed. I might also have mentioned that enlightened piece of legislation, the 1982 Internal Security Act, which is so loosely defined that virtually any opponent of apartheid can be arrested without a warrant, de-

tained without charge, held in solitary confinement indefinitely, and denied the right to a lawyer and access to one's family.

I should also accept criticism for failing to inform readers how the state police have contributed to peaceful progress by clubbing, whipping and shooting peaceful demonstrators. Of course, no report on the regime's noble aims would be complete without describing the brutal tortures suffered by political detainees or pointing out that at least 11 people have died in police custody over the past 18 months.

Ms. Schmidt also charges me with making "statements about South Africa that are totally false and leave the uninformed reader with a completely wrong image of that country". Her attempt to "set the record straight" by presenting "the facts" made me wonder whether we were indeed talking about the same country.

If one were to accept her glowing version, one would almost have to conclude that black South Africans simply



don't know a good thing when they see it. What on earth could they possibly have to complain about when:

- 81 percent of them live below the poverty line of \$189 a month while 1.5 million have no income at all
- one in three black children dies before his or her first birthday, an infant mortality rate 31 times that of white children, and one of the highest in the world in relation to national wealth
- one out of every seven black children under the age of 14 is stunted in

growth for lack of adequate nourishment

- the government spends 10 times more on education for white children than for black
- (All statistics are from a 1984 study financed by the Carnegie Corporation, reported in *The Toronto Star*, Feb. 17, 1985.)

Ms. Schmidt also hopes to convince us that life is wonderful in the bantustans, the so-called "homelands". I guess that's why the three million blacks who have been uprooted from their homes and transplanted to these regions could only be moved by force and intimidation. Perhaps Ms. Schmidt would also care to explain the justice of granting a mere 13 percent of South Africa's land to blacks who make up 72 percent of the population.

Ms. Schmidt claims to "prove" that the wage gap between black and white workers has been "decreasing rapidly" by presenting figures which show the wages of blacks rising at a faster percentage rate than those of white. Two studies, one by the South African Institute of Race Relations, the other by a Port Elizabeth consulting group, put that lie to rest. Both studies showed that although blacks' wages have increased substantially in percentage terms, the wage gap in money terms has actually grown. Between 1970 and 1980, the gap between blacks' and whites' wages more than doubled (*Southern Africa*, December 1982).

Ms. Schmidt also cites the number of foreigners entering South Africa to work as evidence that South Africa is not the "country of oppression" we think it is. Prime Minister Botha has thrown out the figure of 1.5 million foreign migrant workers (*The Globe and Mail*, Sept. 10). However, according to the South African Institute of Race Relations Annual Survey for 1983, 1.33 million workers whom the government had classified as "foreign" were actually from South Africa's own bantustans. There were only 282,000 migrant workers from outside the country.

Ms. Schmidt also sets forth her government's patronizing position that it will only negotiate with "authentic" black leaders (defined as those "willing to denounce violence"). What right does the racist regime have to decide for black South Africans who their authentic leaders are? Surely that's for them to determine. The South African businessmen and other delegations who met recently with the African National Congress are obviously more prepared to recognize this right than the government is.

As for setting a condition that leaders renounce violence, when is the South African government going to renounce violence? The Rev. Beyers Naude, general secretary of the South African Council of Churches and an Afrikaaner critic of apartheid, put the question this way: "If not even peaceful protests are allowed in South Africa, what then remains? If all the other avenues of protest are closed by brutal and repressive state action, what remains?"

Cathy Laurier  
Graduate Student Representative  
Governing Council

## Communication is more than words

President Connell, in his speech to the Empire Club (*Bulletin*, Oct. 21), stressed the urgency of teaching better communication skills in all disciplines.

Communication in academic disciplines involves much more than writing and speaking. Frequently visual communication is critically important for clarity of meaning and speed of comprehension. We all have sat through verbal dissertations that laboriously try to describe appearance and other physical attributes and variables using imprecise verbiage which would be quite unnecessary if pictorial images were substituted. (See accompanying figure.)\*

Professional illustrators know the

frustrations of scientists who are unable to express their ideas visually and must rely on others to do it for them. Moreover, professional illustrators recognize their own handicap if they are unfamiliar with the discipline in question.

Students at universities should have courses in editorial illustration and design available to them in which they are taught at least the basic skills in this discipline. They need this to illustrate their field notes and to help them to visualize concepts in three dimensions. Students in the natural and health sciences in particular should be taught how to represent precisely three-dimensional objects on a two-dimensional page, and to carry

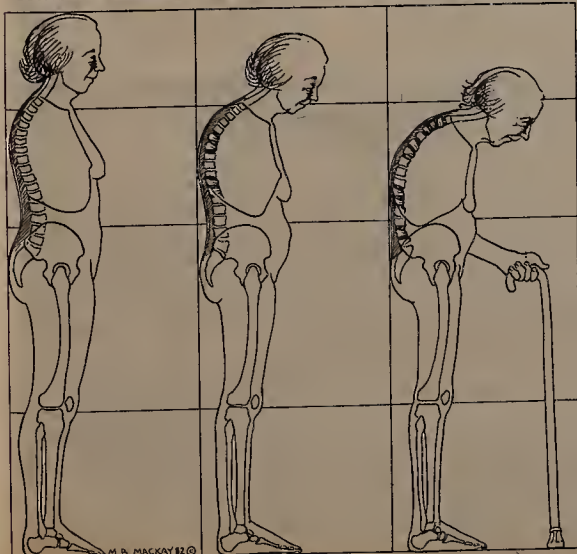
their ideas from realistic representation through the diagrammatic to the schematic or abstract. Furthermore, they should be taught how to integrate their visual material with verbal data in a truly polished presentation.

The lack of this communication skill will be even more of a handicap to university graduates in the near future when much communication will be via the impersonal video display monitor. A written dissertation or even a spoken one on a TV screen without graphic illustrations, where illustrations would be appropriate, will be rejected by every audience that has any choice.

Whereas passive observation of the TV screen is the norm today, interactive uses are becoming more commonplace as videotex and cheap communication networking become a reality. If Canadian university graduates are not able to communicate comfortably over this new media, others will fill the void.

In the United States alone there are more than 40 post-secondary programs in which students are taught how to bring graphic illustration skills to bear on academic disciplines at a highly intellectual level. If Canadian universities fail to recognize the necessity to bring the teaching of these skills into the mainstream of academic education, their graduates will find that the Canadian public will increasingly be tuning their receivers to programs originating in foreign countries whose post-secondary education does not segregate the teaching of studio art from other disciplines. Marshall McLuhan's Global Village is fast making this a practical alternative.

Nancy Joy  
Director  
Department of Art as Applied to  
Medicine



\* The information in this picture titled "Osteoporosis" not only is instantly comprehended, but will be remembered longer than would a verbal description.



# Classified

A classified ad costs \$5 for up to 35 words and \$25 for each additional word. Your name counts as one word as does your phone number, but the components of your address will each be counted as a word. No charge for postal code.

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Ads must be submitted in writing, 10 days before *Bulletin* publication date, to Marion de Courcy-Ireland, Department of Communications, 45 Wilcocks St., Toronto, Ontario M5S 1A1. Ads will not be accepted over the phone.

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## Accommodation Out-of-town

**Berbeda -** One or two bedroom cabanas. West coast near Speightstown. Best beach on the island. Good swimming, snorkelling, diving, wind surfing, etc. Close to golf and tennis. Weekly \$350 Canadian, Dec. 15-April 15. Contact M. McGrath 978-4941 or 967-5392.

## Accommodation Shared

**Non-smoking, quiet, centrally located co-op house** seeks fifth member, over 30 appreciated, to share cooking, shopping and chores. Dec. 1st. \$257 incl. 928-0332/0326.

**Mature, responsible person** over 30, preferably female foreign student or visiting prof., to share 3 bedroom duplex with 2 others, 5 minutes walk from U of T. Avail. Dec. 1st. \$275/month + util. 920-9094

## Accommodation Houses & properties for sale

**Lakefront property for sale.** Charming renovated Edwardian house and rustic Canadian cottage on large treed lot in picturesque Village of Wellington, Prince Edward County. Elegant brick house features exceptional decor, high ceilings, large rooms, (4 beds and study) and two-storey conservatory. Spectacular lake views from house and cottage. Perfect for retirement or retreat. Call evenings 6-8 p.m. 489-2302.

## Secretarial

**Typing of books, theses, articles.** Fifteen years' academic, legal, medical experience. Excellent work. IBM Correcting Selectric III. \$1.35 each double-spaced text page. (20 page minimum) Pam, 925-4967. St. George Street, north of Bloor.

**Word processing services -** manuscripts, theses, resumes, reports, etc. Efficient, reasonable and fast. Call The Office Works 531-8782.

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**The Word Processing Centre** has expertise in typing grant applications, manuscripts, personalized letters, mailing lists, lecture notes, resumes and curriculum vitae. Conveniently located in the Medical Sciences Building, Room 3247, University of Toronto. Phone 978-5021.

## Miscellaneous

**Passport photos** now on campus. B/W Polaroid, 2 for \$6.50 (incl. tax, cash or internal code only). Wednesdays 10-2. Inst. Media Services, Rm 021, Best. Inst. 112 College St. 978-8919.

**Your Own Credit Union.** If you are employed by the U of T you can join the Universities and Colleges Credit Union (Unicoll). For further information call 978-5505 and ask for the member services department.

**Backpack Canada & United States.** Adventuresome backpacking treks in the Canadian Rockies, the Grand Canyon in Arizona, the Grand Tetons in Wyoming, San Juan National Forest in Colorado, the Great Smokies in Georgia, the Florida Trail, the White Mountains of New Hampshire, etc. Also, base camp hiking trips. Adult, co-ed, 7 to 10 days. We have a great time! Request brochure WILLARD'S ADVENTURE EXPEDITIONS, Box 10, Barrie, Ontario, Canada, L4M 4S9.

**Herbells.** Wanted: 60 people to lose weight or earn \$200-\$500. Use herbs. Guaranteed. Call Marlene 598-1766.

**Accent Read Adjustment?** Workshops forming with "accent" on production and formation of the English sound system, English pronunciation and intonation patterns. Small groups, ten weekly sessions. Personalized attention. Christine Gandy, B.A., Reg. OSHA Language/Speech Pathologist. 767-6691.

**BEEF BEEF BEEF** Grain fed young beef for your freezer. Tenderness and flavour guaranteed. Government inspected. Raised on faculty member's farm, priced below market, and delivered in Metro. Contact Professor Bruce Conchie evenings through 977-1156 or weekends at 613-478-5205.

**1976 VW Beetle.** 44,000 miles. Snow tires, no significant rusting. \$1,500 or best offer. Tel. 445-7199, 978-4294.

**Experienced medical secretary** needed for permanent part-time position in Toronto Western hospital 2-3 days per week, flexible. Word processing an asset. Salary \$10.00/hour. Call Arlene at 369-5906.

**Past-film dog free to good home.** I would like to keep him Sunday to Tuesday. Beautiful, very well-behaved, very friendly 3-yr-old Border Collie. Call Paul Muter, 978-8810.

**BOOK SALE.** University College Alumni Association. Saturday, November 9 - 10 am to 4 pm; Monday, November 11 - 10 am to 6 pm; Tuesday, November 12 - 10 am to 2 pm. Opening Day Admission \$1.00 - students free. West Hall, University College.

**Wanted to rent:** inexpensive space to store a car for two years, from Christmas, in or near metro. Is there room in your barn, garage, shed? Prof. Eddie, 928-5404 (days), 929-5919 (evenings).

## SEE AND BE SEEN WITHOUT REFLECTION

*Supercote 99 Improves your Vision  
and your Appearance*

The latest thin film technology, as used in the photographic, electronic and aerospace industries, is now utilized to produce the most efficient anti-reflection coating for your ophthalmic lenses.

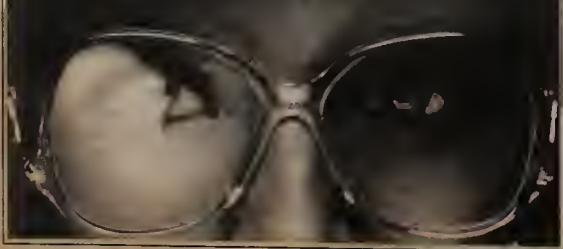
**SUPERCOTE 99**, a four layer multicoating, is evaporated onto both surfaces of the lens in a high vacuum process. It becomes an integral part of the lens and is therefore, as durable as the substrate it is applied to.

**SUPERCOTE 99** is a vital component of your eye glass prescription, which increases light transmission, eliminates reflections and thus maximizes optical efficiency of prescription eyewear.

**SUPERCOTE 99** not only heightens visual acuity and colour perception, but also improves the cosmetic appearance of your glasses.



IMPERIAL  
OPTICAL  
CANADA



## Job Openings

Below is a partial list of job openings at the University. Interested applicants should read the Promotional Opportunity postings on their staff bulletin boards and submit a written application to the Personnel Department to apply for a specific position.

(1) Sylvia Holland; (2) Steve Dyce; (3) Varujan Charakhanian; (5) Christine Marchese; (7) Maureen Brown; (8) Mirella Tataroli; (9) Lisa Rafis.

**Clerk Typist III** (\$15,930 - 18,740 - 21,550) Social Work (8)

**Secretary I** (\$15,930 - 18,740 - 21,550) Ophthalmology (1), Anatomy, 60 percent full-time (9)

**Secretary II** (\$17,470 - 20,550 - 23,630) Graduate Studies (1), Chemical Engineering (5)

**Administrative Assistant III** (\$30,970 - 36,440 - 41,910) Research Administration (1)

**Administrative Officer** (\$34,400 - 40,470 - 46,540) Management Studies (5)

**Laboratory Technician II** (\$19,450 - 22,880 - 26,310) Medicine (1)

**Research Officer III** (\$26,440 - 31,110 - 35,780) Health Administration (5)

**Applications Programmer Analyst II** (\$23,850 - 28,060 - 32,270) NCIC - Epidemiology (5)

**Applications Programmer Analyst III** (\$29,380 - 34,570 - 39,760) Computing Services (3), Dentistry (8)

**Applications Programmer Analyst V** (\$38,270 - 45,020 - 51,770) Information System Services (3)

**Professional Engineering Officer II** (\$32,610 - 38,360 - 44,110) Computing Services (3)

**Manager, Utilities & Equipment** (\$45,370 - 56,710 - 68,050) Physical Plant (1)